

# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 40] नई दिल्ली, शनिवार, अक्टूबर 7, 1989, (अश्विन 15, 1911)  
No. 40] NEW DELHI, SATURDAY, OCTOBER 7, 1989 (ASVINA 15, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधि सूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE

#### PATENTS AND DESIGNS

Calcutta, the 7th October 1989

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,  
Todi Estates, 3rd Floor, Lower Parel (West),  
Bombay-400 013.

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, 3rd Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

1—277 GI/89

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002

The States of Andhra Pradesh, Karnataka, Kerala Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Amindivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020

Telegraphic address "PATENTS".

Rest of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees :—**The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्य तथा अभिकल्प

कलकत्ता, दिनांक 7 अक्टूबर 1989

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट  
तीसरी तल, लोअर परले (पश्चिम,  
बम्बई-400013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दामन तथा  
दिव एवं दादरा और नगर द्वीप ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,  
एकक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
मरस्वती मार्ग, करोलबाग,  
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा  
कश्मीर, पंजाब, राजस्थान तथा उत्तर  
प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र  
चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिक”

पेटेंट कार्यालय शाखा,  
61, वालाजाह रोड,  
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,  
मिनिक्काय तथा एमिनिदिबि द्वीप ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
भवन, 5, 6 तथा 7 वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-7000 20.

भारत का अवशेष क्षेत्र

तार पता—“पेटेंटस”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में  
अर्पित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख  
पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए  
जायेंगे ।

शुल्क :—शुल्कों की बकाया या तो नकद की जायेगी  
अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश  
अथवा डाक आदेश या जहा उपयुक्त कार्यालय अवस्थित है;  
उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक  
ड्राफ्ट अथवा चेक द्वारा को जा सकती है ।

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates  
claimed Under Section 135, of the Patents Act, 1970.

The 29th August, 1989

704/Cal/89. Institut Uglya Sibirskogo Otdelenia Akademii  
Nauk Sssr Ussr. Shield Unit.

705/Cal/89. Tsentralny Nauchno-Issledovatel'sky I Proekt-  
no-Experimentalny Institut Promyshlennykh Zdanv  
I Sooruzheny "Tsnipromzdany". One-Story multiple-  
span modular industrial building.

706/Cal/89. Nikolai Vlasovich Poeriko, Ussr; Viktor  
Petrovich Kulnich, Ussr; Vitaly Alexandrovich  
Iremovsky, Ussr. Method of cleaning a flow  
of air from highly dispersed solid particles.

707/Cal/89. Institut Tekhnicheskoi Teplofiziki Akademii  
Nauk Ukrainskoi Ssr. Method of homogeniza-  
tion of milk and apparatus for effecting same.

708/Cal/89. Australian Commercial Research & Develop-  
ment Ltd. Compositions and methods for drug  
delivery and chromatography.

709/Cal/89. The B.F. Goodrich Company. Process for  
making internally coated reaction vessel for  
conducting olefinic polymerization and internal-  
ly coated vacuum vessel obtained thereby.

The 31st August, 1989

710/Cal/89. Solarex Corporation. Process for Preparing a  
negatively-doped hydrogenated amorphous silicon  
alloy.

[Division of Appln. No. 123/Cal/87].

711/Cal/89. Solarex Corporation. Process for preparing a  
negatively-doped hydrogenated amorphous silicon  
alloy.

[Division of Appln. No. 123/Cal/87].

712/Cal/89. Solarex Corporation. Process for Preparing a  
negatively-doped hydrogenated amorphous silicon  
alloy.

[Division of Appln. No. 123/Cal/89].

713/Cal/89. E.I. Du Pont De Nemours & Company. A  
process for flash-spinning dry polymeric plexi-  
filamentary film-fibril strands

714/Cal/89. E.I. Du Pont De Nemours & Company. Halocarbons for flash-spinning polymeric plexifilaments.

715/Cal/89. E.I. Du Pont De Nemours & Company. Flash-spinning of polymeric plexifilaments.

716/Cal/89. Chand Charan Das. Combination dial lock.

717/Cal/89. Kumar Kishan Rohatgi. Aled (light emitting diode) lamp.

718/Cal/89. Euroceltique S.A. Stabilizing packaged iodophor and minimizing leaching of iodine through packaging.

719/Cal/89. Finia Technology, Inc. Syndiotactic Polypropylene.

The 1st September, 1989

720/Cal/89. E.I. Du Pont De Nemours & Company. Azeotropic compositions of 1, 1, 2-Trichlorotrifluoroethane and Trans-1, 2-Dichloroethylene with Ethanol, N-Propanol Isopropanol and acetone or with ethanol or acetone and nitromethane.

721/Cal/89. Krupp Industrietchnik GmbH. Steelworks plant comprising a metallurgical furnace and a further processing plant.

722/Cal/89. Philips Petroleum Co. A process for producing a novel linear DNA fragment useful for the site selective genomic modification of yeasts. [Division of Appln. No. 731/Cal/86].

723/Cal/89. Dynetics Engineering Corporation. Card counter and method of using same.

The 4th September, 1989

724/Cal/89. The Research Foundation for Microbial Diseases of Osaka University. Non-A, Non-B Hepatitis virus antigen peptide.

725/Cal/89. Schock & Co. GmbH. Component, in particular, built-in sink, and method for its manufacture.

726/Cal/89. E.I. Du Pont De Nemours & Co. Inferential time-optimized operation of a fiber producing spinning machine by computerized knowledge based system.

727/Cal/89. Alvin Henry Benesh. Wind turbine system using a savonious type rotor.  
[Division of Appln. No. 830/Cal/86].

728/Cal/89. Yeda Research and Development Company Limited. Assay for amoebae.

The 5th September, 1989

729/Cal/89. E.I. Du Pont De Nemours & Company. Sintered coating for porous metallic filter surfaces.

730/Cal/89. Oliver Rubber Company. Method and apparatus for tire inspection.

731/Cal/89. Bar Ilan University. A process for the preparation of a composition of matter for cosmetic use.  
[Division of Appln. No. 460/Cal/86]

732/Cal/89. Minning and Allied Machinery Corporation Ltd. Improved holding hook and a method for its manufacture.

733/Cal/89. Bar Ilan University. A method of treating food-stuff for preventing deterioration of the qualities of the same.  
[Division of Appln. No. 460/Cal/86]

APPLICATION FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, MUNICIPAL MARKET  
BUILDING, 3RD FLOOR, KAROL BAGH,  
NEW DELHI-5

The 14th August, 1989

719/Del/89. Korea Research Institute of Chemical Technology, "Process for preparing 1, 3, 5-thiadiazine-4-one derivative".

720/Del/89. General Foods Corporation, "Vacuum packed canned product and method using foil membrane end closure".

721/Del/89. Allied Signal Inc, "Improved process for high speed, multi-end polyester high performance tire and industrial yarn".

722/Del/89. Biuro Projektow I Realizacji Inwestycji Przemyslu Syntezy Chemicznej "PROSYNCHEM", Multi-sectional horizontal oxidizer for oxidation of oxygen derivatives of cyclohexane by means of nitric acid".

The 16th August, 1989

723/Del/89. UOP Inc, "Catalytic composite for conversion of hydrocarbons and process for preparing the same".

[Divisional date 15th October, 1986].

724/Del/89. Compagnie Industrielle De Tubes Et Lampes Electriques Citel, "Gas lightning arrester containing a mineral addition agent".

725/Del/89. Allevard Industries S.A., "Device for wedging a plate spring in position on a railway tie".

726/Del/89. Courtaulds Films & Packaging (Holdings) Ltd, "Polymeric films". (Convention date 26th August, 1988) (U.K.).

727/Del/89. Polly Roy, "Production of bluetongue virus non structural proteins using a baculovirus expression vector".

The 17th August, 1989

728/Del/89. Rohm and Haas Co, "Process for preparing on a substrate surface a negative thermally stable, discontinuous layer of material describing a pattern on said surface".  
[Divisional date 12th January, 1987].

729/Del/89. International Business Machines Corporation, "Digital data display system". (Convention date 6th June, 1989) (U.K.).

730/Del/89. Kabushiki Kaisha Toshiba, "Contact forming material for a vacuum interrupter".

731/Del/89. Solvay & Cie, "Catalytic compositions, process for obtaining them and process for hydrogenation of 1, 1, 2-trichloro-1, 2, 2-trifluoroethane by means of these composition".

732/Del/89. International Business Machines Corporation, Method and apparatus for converting gray scale in a digital data display device". (Convention date 6th June, 1989) (U.K.).

The 18th August, 1989

733/Del/89. Vidya Devi, "Incorporation of inter face device to achieve peak automobile vehicle efficiency in all traffic conditions".

734/Del/89. Council of Scientific & Industrial Research, "An improved method to manufacture manganese monoxide".

735/Del/89. Illinois Tool Works Inc, "Fastener driving tool".

736/Del/89. Shin-Etsu Chemical Co. Ltd, "Method of preventing polymer scale formation".

737/Del/89. Chelyabinsky Institut Mekhanizatsii I Elektrifikatsii Selskogo Khozyaystva ("Apparatus for grinding of loose materials".

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH AT TODI ESTATE, 3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST) BOMBAY-400 013

The 8th August, 1989

219/Bom/89. Indian Oil Corporation Limited. An improved process for the production of ashless alkyl xanthates.

220/Bom/89. Indian Oil Corporation Limited. A lubricating grease composition and to a process for the preparation thereof.

221/Bom/89. Indian Oil Corporation Limited. A lubricating composition for industrial and automotive chains.

The 9th August, 1989

222/Bom/89. Hindustan Lever Limited. 9th August, 1988, Great Britain. Process for purifying crude glycerol.

223/Bom/89. Hindustan Lever Limited. 9th August, 1988, Great Britain. Process for the preparation of nickel/alumina catalysts.

The 11th August, 1989

224/Bom/89. Dr. Kotcherlakota Lakshmi Narayana. A process for the preparation of polyolefinic composite polymers by compound and mixed catalytic agents.

The 16th August, 1989

225/Bom/89. Hindustan Lever Ltd. Detergent compositions.

226/Bom/89. M. D. Agrawal. Four edge saving blade & its razor.

227/Bom/89. M. D. Agrawal. Improved envelope type answer copies.

228/Bom/89. M. D. Agrawal. Improvements in or relating to Cigarettes or Cigar or bidi.

229/Bom/89. M. D. Agrawal. Mini pollution controller for automobiles.

The 17th August, 1989

230/Bom/89. The Associated Cement Companies Ltd. Improved process for manufacturing calcium aluminate hydraulic refractory binder having intermediate purity (35-65%  $Al_2O_3$ ) by low temperature sintering technique & refractory binder produced by said process.

231/Bom/89. The Associated Cement Companies Ltd. Improved process for manufacturing high refractory abrasion resistant tubular alumina aggregates/particles for being moulded into refractory shapes and monolithics.

The 18th August, 1989

232/Bom/89. Shirish Bhailal Patel. A reinforced ribbed glass for skylight opening & the like.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 21st August, 1989

623/Mas/89. Krishnamurthy Hanosoge Gowranga. An improved structural member for taking higher compressive/tensile stresses and a method of manufacturing the same.

624/Mas/89. Kurimoto Limited. Method for manufacturing a crushing roller and method for using the roller.

The 22nd August, 1989

625/Mas/89. Kandenary Mohammed Moosa. Multi thread worm drive pull and push caper box for compressors cum pump.

626/Mas/89. Kandenary Mohammed Moosa. Multi thread worm drive pull and push caper box for mechanical press.

627/Mas/89. Kandenary Mohammed Moosa. Multi thread worm drive pull and push caper box for All Hydraulic Systems.

628/Mas/89. Ellenberger & Poensgen GmbH. Safety door lock for electrical appliances.

629/Mas/89. Ellenberger & Poensgen GmbH. A push button actuated overcurrent protective circuit breaker.

630/Mas/89. Voji Kitamura. Bobbin Hanger.

631/Mas/89. Institut De Recherches De La Siderurgie Francaise (IRSID). Lateral wall for an installation for continuous casting between movable walls installation possessing this wall and process for the continuous casting of this metal products.

632/Mas/89. Maschinenfabrik Rieter AG. An undulated grooved roller.

The 23rd August, 1989

633/Mas/89. Gorantla Sudhakar; Dr. Mullangi Ravindranath; Gorantla Radhakrishna and Dr. Gorantla Venkata Chalapatih. A jumbo bag.

634/Mas/89. Societe des Produits Nestle S.A. Treatment of green coffee.

635/Mas/89. Societe des Produits Nestle S.A. Green coffee treatment.

The 24th August, 1989

636/Mas/89. Owens-Illinois Glass Container Inc. Inspection of container finish.

637/Mas/89. Shell Internationale Research Maatschappij B.V. Process for the catalytic cracking of a hydrocarbon feedstock. (August 26, 1988; Britain).

638/Mas/89. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Opne-end spinning apparatus.

The 25th August, 1989

639/Mas/89. Grovag Grossventiltechnik AG. Seals for gas isolators. (August 31, 1988; Great Britain).

640/Mas/89. Institut Francais du Petrole. Polysulphurized olefin compositions, their preparation and their use as additives for lubricants.

641/Mas/89. Firma Ernst Winter & Sohn. A saw blade.

## OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by M/s. Franco Cement Works (Const.) Pvt. Ltd. to grant of a Patent on application No. 164486 (771/Del/85) dated 23rd September, 1985 made by Om Prakash Ratra.

(2)

An opposition has been entered by Vikram Forgings & Allied Industries Private Limited to the grant of a Patent on application No. 164480 made by Trade and Industry Private Limited.

(3)

An Opposition has been entered by National Research Development Corporation of India on Patent Application No. 164470 made by Indian Space Research Organisation, Bangalore.

(4)

The opposition entered by Pulp and Paper Research Institute to the grant of a Patent on application No. 152113 made by Pressels Pvt. Ltd. as notified in the Gazette of India, Part III, Section 2 dated the 5th May, 1984 has been dismissed and it is ordered that the Patent application will proceed to sealing in the prescribed manner.

(5)

An Opposition has been entered by National Research Development Corporation of India to grant of Patent on application No. 164435 (835/Del/85) dated 9th October, 1985 made by KERR-McGEE CHEMICAL CORPORATION.

## PATENTS SEALED

144560	145584	158753	161140	163644	163645	163717
163718	163721	164074	164084	164088	164096	164112
164114	164120	164161	164189	164226	164227	164228
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CAL — 22  
BOM — 11  
DEL — 7  
MAS — 6.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Pilkington Brothers Limited, a company incorporated under the laws of Great Britain of Prescot Road, St. Helens, Merseyside WA103TT, England, have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 156119 for "Cementitious product reinforcement with alkali resistant glass fibres".

The application for amendment and the proposed amendment can be inspected free of charge of Patent Office, 234/4, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta.

If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Sohio Commercial Development Company, a Delaware Corporation, Midland Building, Cleveland, Ohio USA and BP Photovoltaics Limited, a British Corporation located at Moor Lane, London, England have made an application on from-29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for Patent No. 159022 (179/Del/83) for A method of fabricating a thin film heterojunction photovoltaic cell. The amendments are by way of correction.

The application for amendment and the proposed amendment can be inspected free of charge of Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005 or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in Form 30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005.

If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## AMENDMENT UNDER SECTION—78 OF THE PATENTS ACT, 1970

In the Patent Specification No. 161140 the words "A process of preparing" before the present title has been included and claims 1 to 6 has been deleted to include process claims 1 to 5 instead.

In Patent Specification No. 162023 the following amendment has been amended—

## IN CLAIM—1

Line 9, Page-24, after "...blowing agent," *DELETE* "such as herein described" and *INSERT* "the composition being maintained at a sufficiently low temperature to prevent undesired foaming".

## AMENDMENT PROCEEDING UNDER SECTION 57 OF THE PATENTS ACT, 1970

Proposed amendments under Section 57 of the Patents Act, 1970, in respect of Patent No. 163851 (991/Mas/84) as advertised in the Gazette of India dated 18-3-1989 has been allowed.

Notice is hereby given that the Nippon Kokan Kibushiki Kaisha of 1-2 Marunouchi, 1-chome, Chiyoda-ku Tokyo-100, Japan, have made an application under Section 57 of the Patents Act, 1970, for amendment of the Specification of their application for Patent No. 165235 for "A METHOD OF PRODUCING AGGLOMERATED ORES".

The amendments are by way of correction. The application for amendment and the proposed amendment can be inspected free of charge at the Patent Office, 61, Wallajah Road, Madras-600 002 or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of the Notification at the Patent Office, Madras.

If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## RENEWAL FEES PAID

143745	144466	144859	144860	145013	145183	145311
145333	145703	145975	145997	146237	146238	146239
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159413	159414	159419	159435	159476	159479	159540
159598	159619	159638	159716	159746	159881	159950
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160149	160170	160251	160264	160379	160380	160527
160635	160668	160739	160795	160796	160844	161054
161035	161056	161079	161195	161219	161257	161266
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161655	161682	161729	161835	161842	161885	161923
161945	161957	162047	162051	162272	162283	162297
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162878	162879	162892	162898	162911	162915	162932
162938	162939	162985	163000	163017	163102	163122
163135	163177	163187	163218	163295	163311	163319
163325	163330	163344	163416	163445	163463	163502
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163536	163539	163542	163549	163601	163605	163637
163659	163704.					

## CESSATION OF PATENTS

150501	150503	150504	150505	150512	150513	150514
150516	150519	150520	150521	150522	150524	150527
150529	150530	150534	150535	150537	150545	150546
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150998	151000	151004	151011	151016	151017	151029
151031	151037	151046	151053	151054	151062	151065
151069.						

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158601 granted to Croll-Royolds

Engineering Co. Inc. for an invention relating to "a process for removing solids from a liquid without loss of heel portion and an apparatus therefor."

The Patent ceased on the 21st August 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 19-8-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700020 on or before the 7th December 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application for restoration of Patent No. 155320 dated the 22nd January 1981 made by The Chief Controller, Research & Development on the 30th December 1988 and notified in the Gazette of India, Part III, Section 2 dated the 15th April 1989 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 150688 dated the 21st February 1979 made by Union Carbide Corporation on the 31st January 1989 and notified in the Gazette of India, Part III, Section 2 dated the 6th May 1989 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 155305 dated the 22nd January 1981 made by Chief Controller, Research & Development on the 30th December 1988 and notified in the Gazette of India, Part III, Section 2 dated the 15th April 1989 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 159904 dated the 17-11-80 made by Chief Controller, Research & Development on the 28-11-1988 and notified in the Gazette of India, Part III, Section 2 dated the 18-3-1989 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 147321 dated the 27th February 1978 made by Union Carbide Corporation on the 31-1-1989 and notified in the Gazette of India, Part III, Section 2 dated the 6th May, 1989 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 159906 dated the 17th November 1980 made by Chief Controller, Research & Development on the 28th November 1988 and notified in the Gazette of India, Part III, Section 2 dated the 18-3-1989 has been allowed and the said Patent restored.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159058 granted to Environmental elements Corporation for an invention relating to "an improved method for the removal of sulfur oxide from industrial waste gases".

The Patent ceased on the 8th July 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 19-8-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagdish Bose Road, Calcutta-700 020 on or before the 7th December 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 156170 granted to Dr. Gowrishankar Pandit Rao Palnikar for an invention relating to "hemispherical Solar water-heater with automatic sun-tracking mechanism".

The Patent ceased on the 14th June 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2, dated the 19-8-1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagdish Bose Road, Calcutta-700020 on or before the 7th December 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of Patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

#### स्वीकृत सम्पूर्ण विनिर्देश

ऐतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्माण की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो

उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रपत्र 14 पर आवेदन एक महीने की अवधि से अधिक न हो के भीतर कभी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित दस्तावेज; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूची गत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियां, भारत सरकार वृक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएं तो/अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथा प्रवर्णित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों; के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियां की आपूर्ति पेटेंट कार्यालय, कलकत्ता, द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय में पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों का जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिचलन किया जा सकता है।

CLASS : 116-G

165371

Int. Cl. : B 65 g 1/04.

APPARATUS FOR CONVEYING BULK MATERIAL IN SILOS.

Applicant : SCHADE FORDERTECHNIK GMBH & CO., OF AM ROSENPLATZCHEN 120, D-4600 DORTMUND 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : GUNTER STROCKER.

Application No. 280/Cal/1986 filed April 10, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

24 Claims

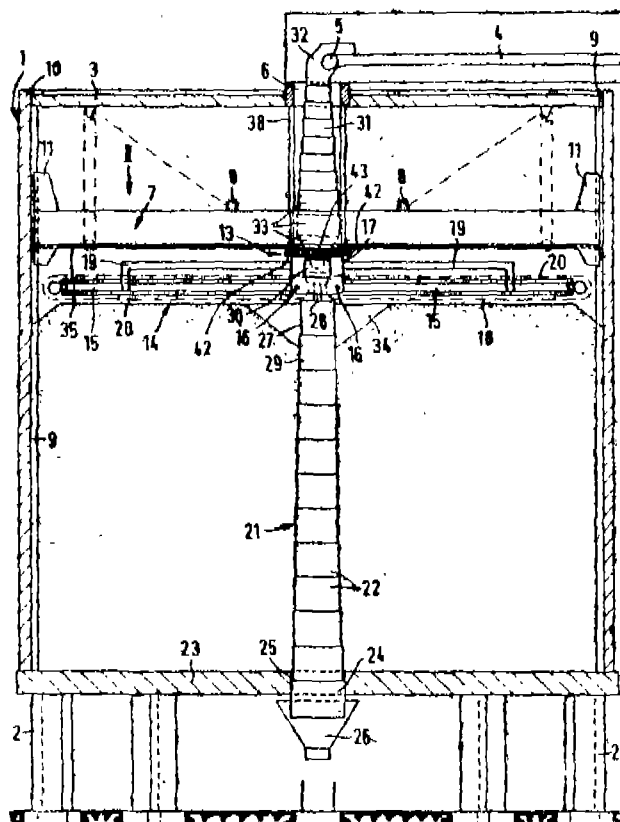
Apparatus for conveying bulk material in silos, comprising :

feed means for dumping bulk material introduced into the silo, and discharge means for discharging bulk material from the silo, which discharge means includes clearing means to remove material from the surface of bulk material within the silo, and which is movable vertically and rotatably within the silo, and a telescopic gravity-descent tube having a bulk material inlet at its top;

and which is coupled to the clearing means to follow the vertical movements thereof by telescopic extension and retraction;

characterised in that the apparatus includes a bridge girder extending across the silo, with its ends engaging vertical guides on the silo wall so that the bridge girder is constrained against rotation, and lifting means to raise and lower the bridge girder;

the clearing means being pivotally mounted beneath the bridge girder, so as to move vertically with the bridge girder, and drive means being provided to rotate the clearing means around an upright axis relative to the bridge girder.



Compl. specn. 32 pages

Drg. 5 sheets

CLASS : 31-A

165372

Int. Cl. : B 01 j 17/30; C 23 c 15/00;

H 011 7/38, 7/48.

**APPARATUS FOR PROVIDING A SUBSTANTIALLY UNIFORM SUPPLY OF GAS TO THE SURFACE OF A SUBSTRATE ON WHICH AT LEAST ONE LAYER OF AMORPHOUS SEMICONDUCTOR MATERIAL IS BEING DEPOSITED.**

Applicant : ENERGY CONVERSION DEVICES, Inc.  
1675 WEST MAPLE ROAD, TROY, MICHIGAN 48084,  
U.S.A.

Inventors : (1) MASATSUGU IZU, (2) TIMOTHY, J. BARMARD, (3) DAVID A. GATTUSO, (4) HERBERT C. OVSHINSKY.

Application No. 255/Cal/82 filed March 05, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

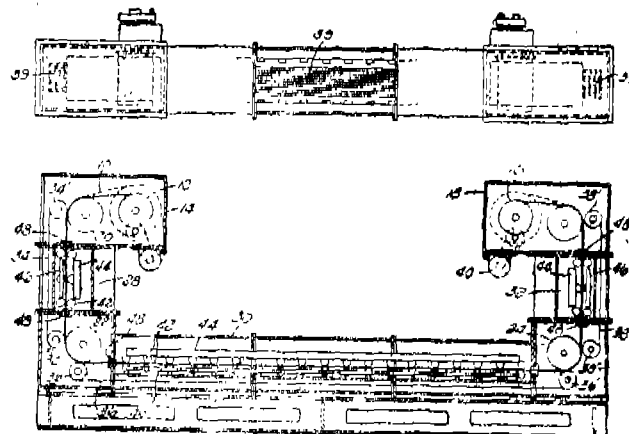
Apparatus for providing a substantially uniform supply of gas to the surface of a substrate on which at least one layer of amorphous semiconductor material is being deposited which comprises a gas dispenser connected to a source of gas said dispenser comprising :

a planar member oriented substantially parallel to and spaced from said substrate;

said planar member being provided therein with a first plurality of openings for admitting gas to the region defined by said planar member and said substrate and a second plurality of openings for evacuating gas from said region;

means for evacuating gas in communication with said second plurality of openings;

first equalising means provided between the source of said gas and said first plurality of openings in said planar member to create substantially equal gas path lengths therebetween and second equalising means provided between said second plurality of openings in said planar member and said means for evacuating gas to create substantially equal gas path lengths therebetween.



Compl. specn. 29 pages

Drg. 5 sheets

CLASS : 52-A

165373

Int. Cl. : B 26 d 4/00.

**LONGITUDINAL CUTTER APPARATUS FOR WEBS OF PAPER AND THE LIKE.**

Applicant : BELOIT CORPORATION, OF P.O. BOX 350, BELOIT, WISCONSIN 53511, U.S.A.

Inventors : (1) HEINZ ZEYHER, (2) BERND GOERNER.

Application No. 341/Cal/1985 filed May 03, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

Longitudinal cutter apparatus for webs of paper and the like, comprising :

a plurality of pairs of circular knives corresponding to the desired cut locations which lie against one another at the edges in axial direction upon formation of a cutting edge;



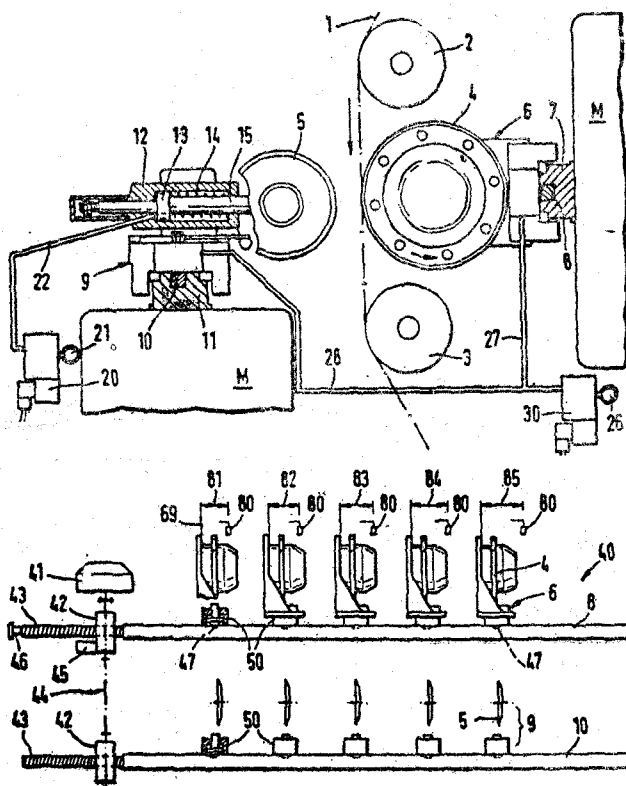
comprising rails disposed at both sides of said web transversely relative thereto;

carriages at which one circular knife is seated being displaceable at said rails;

comprising a conveying means for the selective displacement of said carriages into a desired position, comprising an electronic control means having a memory into which the desired positions can be input as distance of a carriage-fixed bench mark from an apparatus-fixed bench mark and by means of which said conveying means is controllable such that it automatically displaces said carriages to the appertaining positions;

for controlling the position of the cutting edges of the pairs of circular knives of a longitudinal cutter means for webs of paper wherein measuring means is provided;

the distance of said cutting edge (19) in the direction of said rails (7, 11) from a location fixed to one of the appertaining carriages (6, 9) being identifiable by said measuring means for every pair of knives (4, 5) and being inputtable into said memory as part of the respective distance from the outer bench mark (46) which defines the position of said cutting edge (19).



Compl. specn. 16 pages

Drg. 3 sheets

CLASS : 128-E+G

165374

Int. Cl. : A 61 b 5/04.

IMPROVED CLIP-TYPE ELECTRODE FOR ELECTROCARDIOGRAPHS.

Applicant : FUKUDA DENSHI CO. LTD., OF 39-4, HONGO 3- CHOME, BUNKYO-KU, TOKYO 113, JAPAN.

Inventor : (1) KIMIO YAMAGUCHI, (2) YOSHINORI CH'BA. 2-277 GI/89

Application No. 447/Cal/1985 filed June 14, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

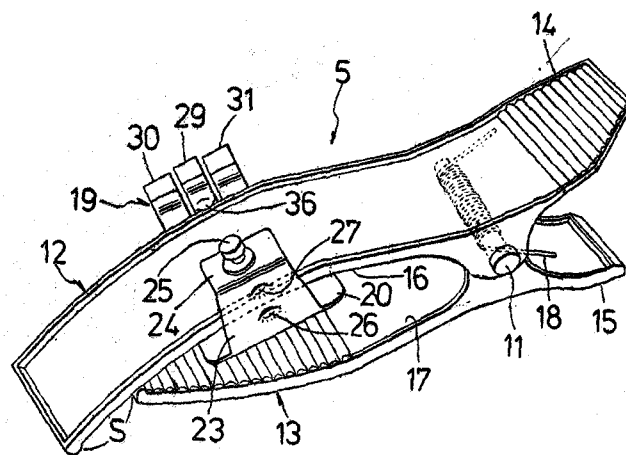
A clip-type electrode for an electrocardiograph comprising:

a pair of metal clamping plates for being opened and closed relative to each other about a common shaft and having concave surfaces facing each other;

an electrode member for providing external circuitry mounted on one of said clamping plates, and a spring coiled around the common shaft for biasing ends of said clamping plates remote from the common shaft towards each other, one of said clamping plates being longer than the other;

said electrode member being formed of an electrically conductive resilient material and including a pressuring plate section adapted for pressuring a limb of a living body, and a pair of engagement plate sections extending upwards from both edges of said pressuring plate section and having a plurality of inwardly projecting bosses;

said engagement plate sections clamping opposing longitudinal edges of the longer one of said clamping plate sections for attaching said electrode member to said last-mentioned clamping plate.



Compl. specn. 12 pages

Drg. 3 sheets

CLASS : 128-G, K

165375

Int. Cl. : A 61 b 17/00.

A SURGICAL INSTRUMENT FOR JOINING TISSUE BY MEANS OF TWO PIECE FASTENERS.

Applicant : ETHICON, INC., OF SOMERVILLE, NEW JERSEY 08876, UNITED STATES OF AMERICA.

Inventors : (1) STEPHEN JOSEPH FAILLA, (2) CARMEN GERRONE.

Application No. 198/Cal/1985 filed July 03, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A surgical instrument for joining tissue by means of two-piece fasteners, said fasteners comprising a staple and a receiver that interlocks with said staple, said instrument comprising :—

a support body, a pair of jaws mounted at one end of said support body, a staple housing mounted in one of said jaws;

said housing having a plurality of openings for accepting staples;

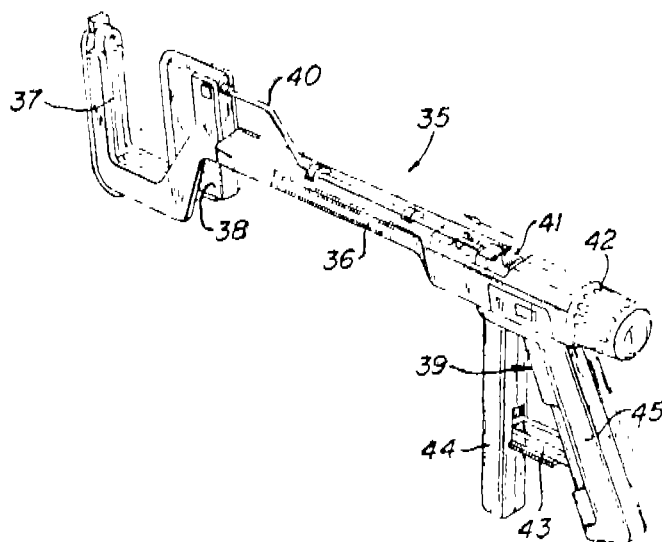
W-shaped staples disposed in said openings;

said staples being held in said openings frictional contact between the legs of the staple and the walls of the openings;

a plurality of receivers disposed in said other jaw; means mounted on said support body for moving said jaws containing said staple housing towards the other jaw to close the gap and clamp tissue places therebetween;

drive means mounted on said support body for driving the staples from the jaw on which the staple housing is mounted towards the opposite jaw to interlock with the receivers disposed in said opposite jaw; and

actuating means mounted at the end of said support body opposite said end on which the jaws are mounted for actuating said staple drive means.



Compl. specn. 20 pages

Drg. 7 sheets

CLASS : 24-A

165376

Int. Cl. : B 60 t 1/00.

**SELF ADJUSTING PARKING BRAKE ACTUATING MECHANISM.**

Applicant : KEISEY-HAYES COMPANY, OF 38481 HURON RIVER DRIVE, ROMULUS, MICHIGAN 48174, U.S.A.

Inventor : ANTHONY COLIN EVANS.

Application No. 505/Cal/1985 filed July 08, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

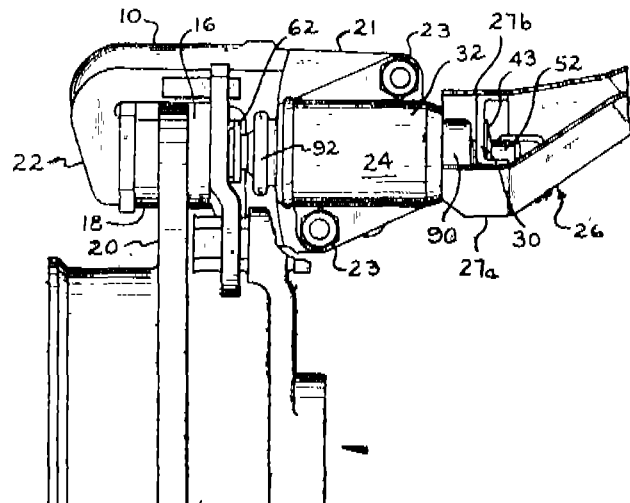
6 Claims

A self adjusting parking brake actuating mechanism comprising :

an adjusting strut assembly including adjusting nut means having a threaded bore therein and thrust screw means threadingly received within said threaded bore, said adjusting nut means having a circumferential ratchet wheel and a peripheral groove axially separated one from the other;

means for attaching said adjusting strut assembly to friction pad means of a brake assembly whereby said adjusting strut assembly is caused to move concert with said friction pad means;

pawl means including a first arm engaging with said ratchet wheel, a second arm engaging with said peripheral groove and having a pivot therebetween whereby upon a predetermined relative movement between said pivot and said adjusting nut means said first pawl arm is caused to rotate about said pivot sufficiently to rotate said ratchet wheel and said adjusting nut means relative to said thrust screw means thereby changing the axial length of said adjusting strut assembly.



Compl. specn. 14 pages

Drg. 5 sheets

CLASS : 108-C<sub>2</sub>

165377

Int. Cl. : C 21 c 5/52, 5/54.

**METHOD FOR CONTINUOUS STEELMAKING IN ELECTRIC FURNACE.**

Applicant : INTERSTEEL TECHNOLOGY, INC., OF 3041 SHALLOWOOD LANE, MATTHEWS, NORTH CAROLINA 28105, U.S.A.

Inventor : JOHN ALEXANDER VALLOMY.

Application No. 566/Cal/1986 filed August 01, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A method for the continuous refining of steel, in an electric furnace, such as herein referred to, comprising :

- preparing iron-bearing scrap for use in shredded, sheared or granular form;
- segregating the prepared scrap;

preheating prepared scrap;

feeding iron bearing scrap, direct reduced iron, or a mixture thereof to an electric powered steelmaking furnace for melting and refining therein;

feeding slag formers to the steelmaking furnace;

introducing carburizers into the steelmaking furnace; heating the charge electrically to melt the charge and form a molten metal bath within the furnace with a molten slag layer on said molten metal bath;

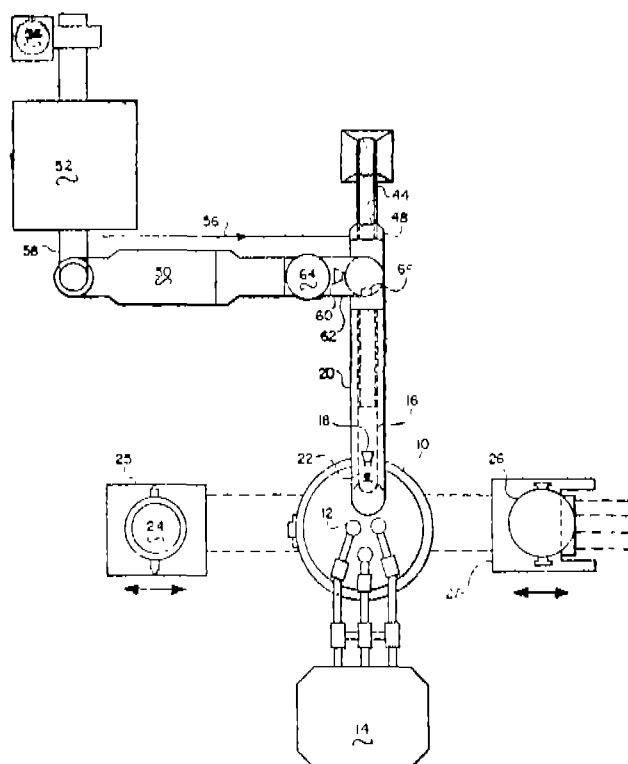
maintaining a molten metal heel within the bath having approximately the same volume as that of the molten metal removed by each tapping;

maintaining said slag in a foaming condition during the steelmaking process;

continuously feeding metallics, slag formers, and carburizers to said furnace;

maintaining full electric power to said furnace at all times during the charging, melting and refining operations, and

partially lapping said furnace intermittently, said tapping being carried out by limited tilting of the furnace.



Compl. specn 15 pages.

Drg. 3 sheets

CLASS : 38

165378

Int. Cl. : F16g 13/00-15/00.

#### A SAFETY AND OVERLOAD DETECTION DEVICE.

Applicant : EMERSON ELECTRIC CO., OF 8100 W. FLORISSANT, ST. LOUIS, MO 63136, U.S.A.

Inventor : ROGER PAUL BUTTERFIELD.

Application No. 567/Cal/85 filed August 02, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

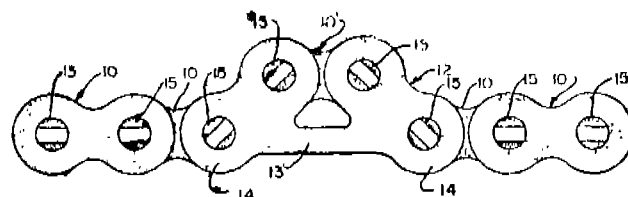
#### 14 Claims

A safety and overload detection device for use in a chain of the type comprising :

a plurality of link plate members (10) extending in substantially linear alignment with successive ends thereof positioned in overlapping relation and connected by spaced pin members (15) extending normally therethrough, said safety and overload detection device comprising a link (2; 12; 22) adapted to be laced into said chain so that tensile loads are

carried through said link, said link having overload indicating means provided with a prescribed tensile strength less than the tensile strength of the remainder of said link, said safety means (10; 30; 40; 50; 60) having a tensile strength at least substantially equal to the tensile strength of said remainder of said link, said safety means shunting said overload indicating means to hold the load under overload conditions;

characterized in that said link (2; 12; 22) having said overload indicating means comprises a link plate member having opposed extremities (4; 14) and fuse bar means (3; 13; 23; 33; 43; 51; 61) interconnecting said opposed extremities (4; 14) said fuse bar means being designed to break under predetermined overload conditions.



Compl. specn. 13 pages

Drg. 3 sheets

CLASS : 37-A

165379

Int. Cl. : B04c 5/00.

#### AN IMPROVED CYCLONE SEPARATOR.

Applicant : B.W.N. VORTOIL RIGHTS CO. PTY. LTD., 4 PARK DRIVE, DANDENONY, VICTORIA, AUSTRALIA.

Inventor : (1) DEREK ALAN COLEMAN; (2) MARTIN THOMAS THEW.

Application No. 571/Cal/1985 filed August 02, 1985.

Convention dated 2nd August, 1984 (84 19771) U.K. and 2nd May, 1985 (No. 85 11149) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 19 Claims

An improved cyclone separator for the separation of a mixture including multiphase liquids, the separator comprising a primary portion having generally the form of a volume of revolution and having a first end and a second end, the diameter  $d_2$  at said second end being less than the diameter  $d_1$  at said first end, a single inlet 8, with at least a tangential component at said first end of said primary portion for introducing the multiphase mixture to be separated into the cyclone separator, and at least two outlets; characterized in that the following relationship applies :

where  $d_1$  is the diameter of the cyclone in the inlet portion where flow enters (but neglecting any feed channel),  $d_1$  is twice the radius at which flow enters the cyclone (i.e. twice the minimum distance of the tangential component of the inlet centre line from the axis),  $d_2$  is the diameter of said overflow outlet A,  $A$  is the cross-sectional area of the inlet at entry to the cyclone in a plane parallel to the axis of the cyclone and perpendicular to the component of the inlet center line not parallel to the cyclone axis,  $d_2$  is the diameter of

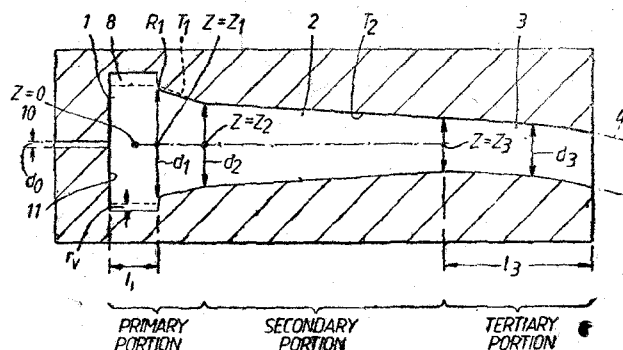
the primary portion at said second end and is measured at a point  $z_2$  where the condition first applies that :

$\tan^{-1}$

$$\frac{d_2 - d}{2(z - z_2)} < 2^\circ$$

for all  $z$  greater than  $z_2$  where  $z$  is the distance along the cyclone separator axis downstream of the plane containing the inlet and is the diameter of the cyclone at  $z$ , then

$$\frac{\Pi d_2 d_1}{4 A_1} \text{ is from 3 to 12}$$



Compl. Specn. 17 pages

Drg. 1 sheets

CLASS : 128-A; G

165380

Int. Cl. : A 61 f 13/16.

AN ABSORBENT STRUCTURE COMPRISING A FIBROUS WEB OF RESILIENT FIBERS AND METHOD FOR PREPARING THE SAME.

Applicant : PERSONAL PRODUCTS COMPANY, VAN LIEW AVENUE, MILITOWN, NJ 08850, U.S.A.

Inventor : MICHAEL J. ISKRA.

Application No. 574/Cal/1985 filed August 05, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

An absorbent structure such as disposable diapers, sanitary napkins, wound dressings, bandages and incontinent pads comprising a fibrous web of resilient fibers, said web having a basis weight less than about 4 oz/sq. yd., an initial dry bulk of at least about 20 cc/gm, a dry bulk recovery of at least about 30 per cent and a wet bulk of at least about 30 cc/gm., and superabsorbent disposed in amongst the fibers of said web in an amount of at least about 200 per cent by weight based on said web weight, said structure having a Taber stiffness valueless than about 50.

Compl. specn. 28 pages

Drg. 5 sheets

CLASS : 153

165381

Int. Cl. : B 24 d 5/00.

#### VITRIFIED GRINDING WHEEL.

Applicant : NORTON COMPANY, OF 1 NEW BOND STREET, WORCESTER, STATE OF MASSACHUSETTS, U.S.A.

Inventor : CHARLES VICTOR RUE.

Application No. 575/Cal/1985 filed August, 05, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A vitrified grinding wheel containing aluminous abrasive grits and an inorganic glassy bond, said abrasive grits consisting of polycrystalline mass of submicron alpha-alumina particles having a non-cellular microstructure.

Compl. specn. 7 pages

Drg. Nil

CLASS : 127-I

165382

Int. Cl. : F 16 h 41/00.

A PORTABLE ROTARY IMPULSE TOOL FOR TIGHTENING FASTENERS.

Applicant : CHICAGO PNEUMATIC TOOL COMPANY, AT 2200 BLEECKER STREET, UTICA, N.Y. 13503, U.S.A.

Inventors : (1) WILLIAM KEITH WALLACE, (2) KENNETH ALFRED MCHENRY.

Application No. 889/Cal/85 filed December 09, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

A portable rotary impulse tool for tightening fasteners and adapted to be driven by electric or air motor driving means having a rotatable drive shaft, said impulse tool comprising :

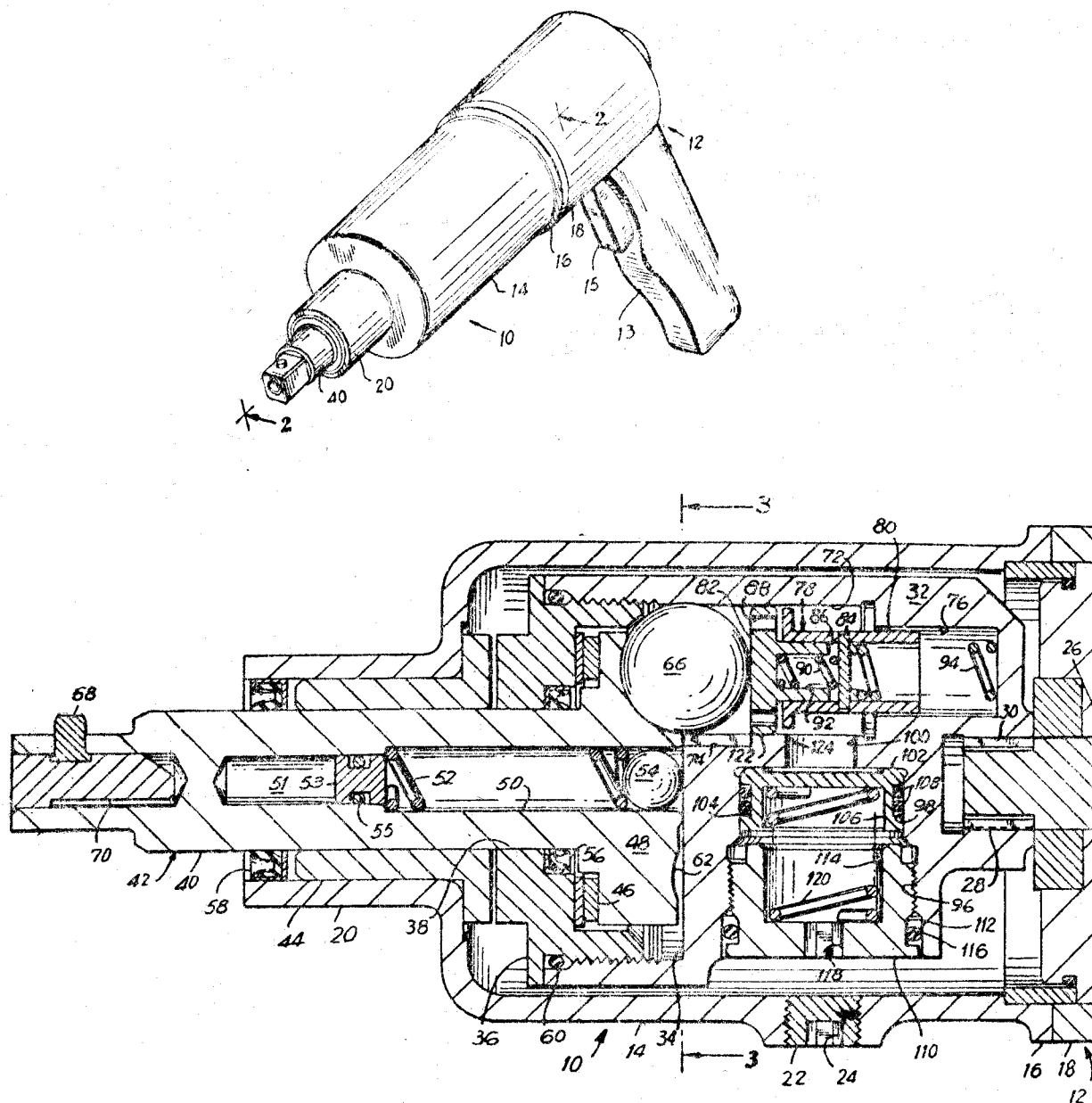
a substantially cylindrical outer casing within which a generally cylindrical rotatable cage, filled with hydraulic fluid, is supported for drive by said rotatable drive shaft;

a driven impulse member having an inner end portion within said cage and an outer end portion, adapted to carry a work-engaging tool, extending out of the cage;

said impulse member being journaled in a region thereof intermediate said inner and outer end portions for rotation relative to said outer casing, and drive means operatively connecting the impulse member with the rotatable cage for driving the impulse member when the rotatable cage is driven by said drive shaft;

characterized in that said drive means comprises ball means and a cooperating cam surface provided on said inner end portion of the impulse member and engaged by said ball means, and torque, producing means for producing a torque sufficient to drive said impulse member by said ball means on rotation of said cage;

the torque applied to said impulse member being a function of the hydraulic pressure created by the ball means in a pressure chamber within the cage on interaction of said ball means with said cam surface on the impulse member.



Compl. specn. 29 pages

Drg. 3 sheets

CLASS : 32-E + 152-E

165383

Int. Cl. : C 081 67/00, 75/00.

METHOD OF MAKING A SOLVENTLESS RESIN COMPOSITION.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, U.S.A.

Inventors : WEI-FANG ANNE SU.

Application No. 45/Cal/86 filed January 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

A method of making a solventless resin composition characterised by preparing a first composition comprising :

a polyhydroxyl compound having at least three hydroxyl group;

an aromatic compound which is at least difunctional in a group selected from acid, anhydride, ester and

mixtures thereof, where the proportion of said polyhydroxy compound to said aromatic compound is such that the derived polyester has hydroxyl functionality is from 150 to 250 mole % in excess of stoichiometric; and

a sufficient amount of an esterification catalyst such as herein before described heatings said first composition to produce the polyester;

preparing a second composition which comprises a hydroxy acrylate having an hydroxyl groups; and

an isocyanate having  $m$  isocyanate groups where  $m$  is at least two, the molar ratio of said hydroxy acrylate to said isocyanate being  $m-1/n+1$  10 mole %;

allowing said second composition to exotherm to produce the acrylate urethane; and

preparing a resin composition which comprises said polyester and said acrylate urethane in an amount from about stoichiometric with said polyester to substantially 10% excess of said polyester over stoichiometric; with a liquid acrylate reactive diluent sufficient to give said resin composition a viscosity of less than 5000 cps.

Compl. specn. 16 pages

Drg. Nil

CLASS : 65-B & 2; 63-H, B

165384

Int. Cl. : H 01 b 27/24, 3/00.

#### METHOD OF MANUFACTURING MAGNETIC CORES AND MAGNETIC CORES THERETO OBTAINED.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, U.S.A.

Inventor : JAIME ERNESTO SIMAN

Application No. 46/Cal/1986 filed January 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 21 Claims

A method of manufacturing a magnetic core containing amorphous metal, without applying significant mechanical stresses thereto, comprising:

the steps of forming a magnetic core having a plurality of lamination layers defining closely adjacent edges on opposite sides of the magnetic core;

applying a reinforced:

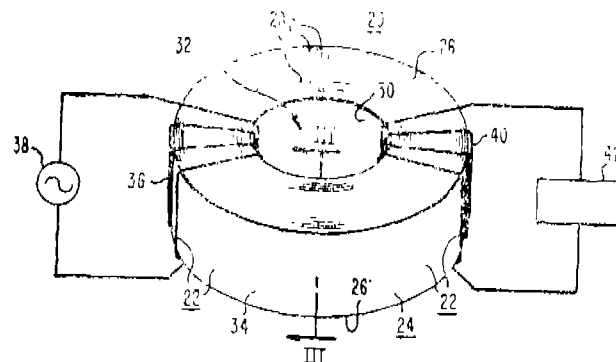
adhesive insulative structure to the adjacent edges of the magnetic core without penetration therebetween;

bonding said adhesive structure to said adjacent edges, and bonding an outer structure to said insulative inner structure to provide a composite coating;

said step of applying an adhesive insulative structure to the closely adjacent edges of the magnetic core including the steps of providing a first radiation gellable liquid resin which cures with a minimum amount or residual stress to the lamination layers and said step of bonding an outer structure to said inner insulative structure including the step of providing a second gellable liquid resin;

with said first liquid resin providing a lower stress bond when gelled than said second liquid resin, and with said second liquid resin having a higher tensile strength when gelled than said first having a higher strength when gelled than first liquid resin, so that the higher strength outer structure of the composite coating cooperates with the lower stress inner structure to protect and maintain the desired core configuration during thermal cycling;

while the inner structure forms a low stress interface between the outer structure and the magnetic core, so that composite coating simultaneously supports and protects the magnetic core against mechanical stresses.



Compl. specn. 23 pages

Drg. 8 sheets

CLASS : 119 D, F1

165385

Int. Cl. : D 03 d 47/00.

#### DEVICE OF USE IN A WEAVING MACHINE FOR STORING FILAMENTOUS MATERIAL FOR PICKING.

Applicant : SUZER BROTHERS LIMITED, OF CH-8401 WINTERTHUR, SWITZERLAND.

Inventors : (1) BARTEN ANTONIUS MARTINUS, (2) SENN GEORG.

Application No. 53/Cal/86 filed January 24 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A device of use in weaving machines for storing filamentous material for picking, the device comprising:

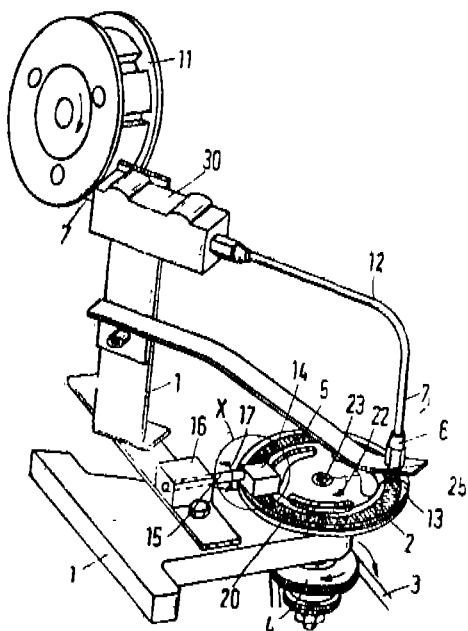
a rotating material-carrying disc (2) and, directed thereon, a nozzle (6) for supplying air and material (7);

the device also having an eye (26) which is disposed on the picking side (45) of the weaving machine (46) and which is operative to supply to the picker (31) the material (7) drawn off the disc (2);

characterised in that a cover element (13) is disposed with slight pressure,

preferably produced by its own weight, on the disc (2);

the material (7) being stored in the form of a loop-like deposit (8) between the die (2) and the cover element (8).



Compl. specn. 12 pages

Drg. 2 sheets

CLASS : 33-A

165386

Int. Cl. : B 22 d 11/00.

A PROCESS AND AN INGOT MOULD FOR THE CONTINUOUS CASTING OF MOLTEN METAL.

Applicant : METACON AG., OF OERLIKONSTR. 88, CH-8057 ZURICH, SWITZERLAND.

Inventors : (1) BERNHARD TINNES; (2) HEINZ KRFU/BERG.

Application No. 56/Cal/1986 filed January 27, 1986.

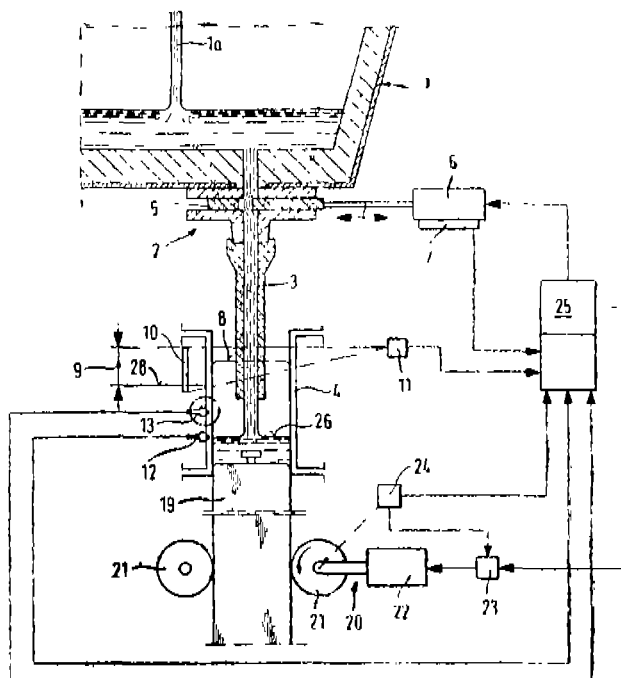
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A process for the continuous casting of molten metal particularly for casting of steel smelts which comprises the following steps :

- (i) casting said molten metal into an ingot mould by means of a controllable spout lock situated at an intermediate container;
- (ii) maintaining the level of the bath in said mould at a rated level of filling within a measuring stretch at a constant take down speed of the cast billet with the help of measuring and regulating instruments;
- (iii) putting the pully opened spout lock into a previously adjusted throttle position during the pouring of the smelt into the intermediate container instances where the level increases beyond actual filling level in the ingot mould at one first signal plane to regulate the further increases beyond actual filling level in the ingot mould at one first signal plane to regulate the further increase of the actual filling level upto the instance of taking over by the control for the rated filling

level, by putting into operation of the billet take down at a second signal plane



Compl. specn. 11 pages

Drg. 4 sheets

CLASS : 6-A<sub>3</sub>, A<sub>2</sub>; 85-J; 76-I; 177-D

165387

Int. Cl. : F 22 b 37/00; F 22 g 5/00.

APPARATUS FOR REGULATING AND CLEANING AN AIR PASSAGE IN THE WALL OF A FURNACE.

Applicant : LT-PRODUKTER SKUTSKAR AB, AT TRALVAGEN 13, S-81400. STUTSKAR, SWEDEN.

Inventor : TORE INGEMAR ERIKSSON.

Application No. 89/Cal/1986 filed February 07, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

An apparatus for regulating and cleaning an air passage provided in the wall of a furnace, such as a soda recovery unit, and communicating with an air box positioned outside said wall, said apparatus comprising :

a sleeve member having a force and a rear opening and which is insertable into said air passage to remove deposits therefrom;

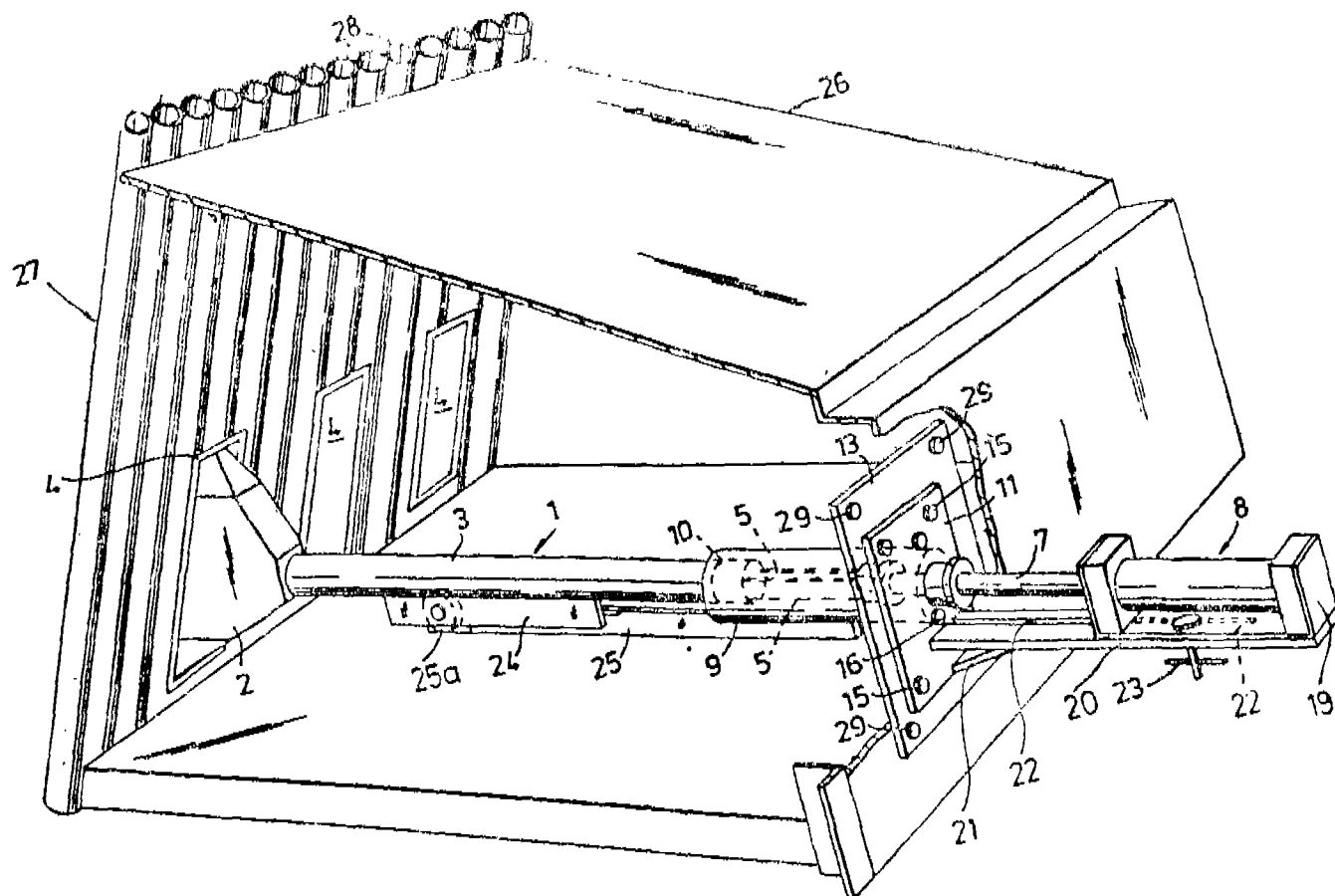
An elongate holder means supporting said sleeve member which holder means is mounted to be slidable in its longitudinal direction and extends through the wall of said air box opposite said air passage, said holder means comprising a hollow air conduit section connected to the rear opening of said sleeve member and which spaced from said sleeve member is provided with at least one air inlet;

a stationary housing member within said air box and partially surrounding said hollow section of the holder means; and

driving means arranged externally of said air box and operatively connected to said holder means for imparting a reciprocatory movement thereto and thereby to said sleeve member;

said housing member being adapted, in a first, air regulating position of the said sleeve member, to receive said at least one air inlet is within said housing member to thereby substantially prevent the admission of air from said air box to said air

inlet, and, in a second, advanced cleaning position of the sleeve member, said at least one air inlet is at least partially outside said housing member to permit air from the said box to pass through said air inlet and into said sleeve member.



Compl. specn. 12 pages

Drg. 1 sheet

CLASS : 33-D

165388

Int. Cl. : B 22 d 25/00.

**METHOD FOR THE PRODUCTION OF CAST IRON MELT TREATED WITH MAGNESIUM IN A CASTING PROCESS.**

Applicant: GEORG FISCHER AKTIENGESellschaft, CH-8201, SCHAFFHAUSEN, SWITZERLAND.

Inventors : (1) KARL GUT, (2) IVO HENYCH.

Application No. 103/Cal/1986 filed February 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Method for the production of cast iron melt treated with magnesium in a casting process which consists in the steps of using pure magnesium for a determined magnesium treatment of the cast iron melt and providing additional magnesium not required for the predetermined magnesium treatment and utilizing the addition magnesium for rinsing and cleaning suspended highly basic reaction products from the cast iron melt and wherein inductor spouts, down-gates and outlet casting chemicals and like are maintained free of deposits in the said method of producing cast iron melt in the casting process.

Compl. specn. 10 pages

Drg. Nil

CLASS :

165389

Int. Cl. : F 16 p 7/00; G 01 m 7/00, 13/00.

**APPARATUS FOR MONITORING MACHINE PARTS.**

Applicant : FRIED KRUPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, OF ALTENDORFER STRASSE 103, D-4300 ESSEN 1, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) GERD BITTNER, (2) GHOLAM-REZA SINAMBARI.

Application No. 111/Cal/1986 filed February 17, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An apparatus for monitoring machine parts for wear by measuring vibrations occurring in a machine comprising :

- a signal transducer which detects vibrations and which converts the detected vibration signals into analog electrical values;
- a sample and hold memory connected to an output of said transducer;



means, connected to an output of said sample and hole memory, for analyzing output signals from said transducer according to evaluation criteria;

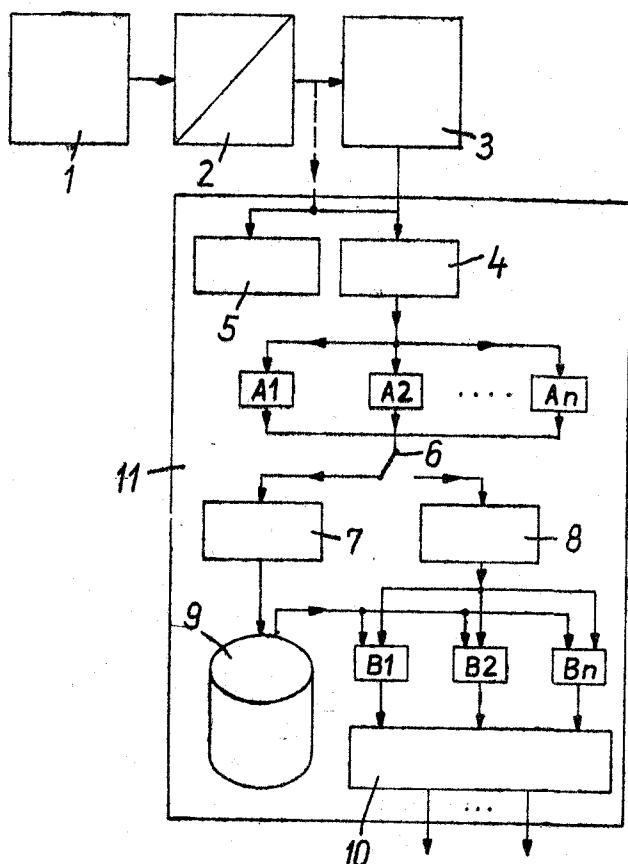
a comparator means, having one input connected to an output of said means for analyzing, for comparing actual state signals provided by said means for analyzing with stored desired state signals;

a comparison value analyzer which emits a signal whenever a fixed, given threshold value is exceeded by an output signal of said comparator;

a further memory for storing said desired state signals and having its output connected to the other input of said comparator means; and

an additional reminder memory, having an input connected to the output of said transducer, for storing the actual state signals for enlarging the evaluation criteria; and

wherein said means for analyzing includes respective frequency analyzers and peak value analyzers whose inputs are connected are connected to the output of said sample and hold memory, and said comparison value analyzer and said frequency analyzers and said peak value analyzers are provided in exchangeable module form.



Compl. specn. 17 pages

Drg. 7 sheets

CLASS :

165390

Int. Cl. : C 01 b 31/00.

# PROCESS OF TREATING CARBON TO REDUCE THE ASH CONTENT THEREIN.

Applicant : WAYMATE LIMITED, OF ALEXANDRA  
HOUSE, 11TH FLOOR, CHATER ROAD, HONG KONG.

Inventors : ROBERT LLOYD, MAXWELL JAMES  
TURNER.

3-277 GI/89

Application No. 119/Cal/86 filed 18th February, 1986.

Convention dated 19th February, 1985 (Australia) (No. PG 9350).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A process for treating carbon, as herein defined, to reduce the ash content therein comprising treating the carbon in particulate form with a fluorine acid solution which comprises:

an aqueous solution of hydrofluorosilicic acid and hydrogen fluoride, such that the available metal oxides are converted to soluble metal fluorides and/or metal fluorosilicates which dissolve in said aqueous solution and separating the treated carbon from the aqueous solution containing the dissolved metal fluorides and/or metal fluorosilicates and wherein the treated carbon is washed with fluorosilicic acid ( $\text{H}_2\text{SiF}_6$ ) to remove metal fluorides and/or metal fluorosilicates from the surface thereof, drying the washed treated carbon at a temperature of from 70° to 140°C and heating the treated carbon to a temperature of between 250° to 400°C to remove fluorosilicic acid in the form of HF or  $\text{SiF}_4$ .

Compl. specn. 17 pages

**Drg. 1 sheet**

CLASS : C 07 C—87/02, 87/48, 87/54

165391

A PROCESS FOR CATALYTIC TRANSFER HYDRO-  
GENATION OF ALIPHATIC OR AROMATIC NITRO-  
COMPOUNDS TO CORRESPONDING AMINES, PARTI-  
CULARLY 4-NITRODIPHENYL-AMINE TO 4-AMINODI-  
PHENYL AMINE

Applicant : IEL LIMITED, AN INDIAN COMPANY  
HAVING ITS REGISTERED OFFICE AT ICI HOUSE,  
34 CHOWRINGHEE ROAD, CALCUTTA-700 071, WEST  
BENGAL, INDIA.

**Inventors :** (1) BHAIKAB NATH ROY, (2) DOUBLE MUKESH, (3) MANISH SARKAR, (4) VIDYA SUNDERRAMAN, (5) ASHOK GHOGARE, AND (6) DIWAKAR DURVE.

Application No. 275/Bom/1986 filed on September 30, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay.

## 6 Claims

A process for catalytic transfer hydrogenation of an aliphatic or aromatic nitrocompound such as herein described to corresponding amine, particularly 4-Nitrodiphenylamine to 4 Amino-diphenylamine, said process comprises transfer hydrogenating the said aliphatic or aromatic nitrocompound with a hydrogen donor solvent such as herein described as the reducing agent in the presence of a transfer hydrogenation catalyst such as herein described at atmospheric pressure and at a temperature between 70°C to 185°C in oxygen-free atmosphere and under stirring, if required, and isolating the amine from the reaction mixture in known manner such as herein described.

Compl. specn. 10 pages

Drg. 1 sheet

Int. CLASS : B 41 F—21/00

165392

## PIN BELT TYPE PAPER TRACTOR.

Applicant : SEIKOSHA CO. LTD. A COMPANY INCORPORATED IN JAPAN, OF 6-21, KYOBASHI 2-CHOME, CHUO-KU, TOKYO, JAPAN.

Inventors : AKIO TAJIMA & SATORU TADA.

Application No. 277/Bom/1986 filed on October 6, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay.

## 5 Claims

## A Pinbelt type paper tractor comprising :

a chassis body slidably fitted over a support frame, the said chassis body being composed of two members/chassis, one chassis being integrally provided with projecting coupling pawls and the other having projecting hole a drive shaft passing through said chassis body and rotatably supported by the support frame;

a belt driving wheel, having gear teeth on its peripheral surface and integral sleeves on its either end face, on of the said sleeves having a plurality of resilient segments being devided by a plurality of slits, being non rotatably but slidably fitted on the said driving shaft;

in between the said two chassis a rotary member rotatably supported on a shaft portion integrally formed and projecting from one of the said sleeves and fitted in a hole of the other sleeve;

an endless belt having teeth on its inner surface meshing with the teeth of the said driving wheel passing over the said rotary member;

the outer surface of the belt having projecting pins for engaging with the perforations on either edge of the recording paper a pair of belt receivers integrally formed with one of the chassis in between the said rotary member and the said driving wheel;

the end portions of said receivers being fitted in other chassis;

a spring loaded paper holding cover open-closeably attached to the cover receivers provided on the peripheral surface of one of the said chassis, the said cover having an elongated window hole for unrestricted movement of belt pins and its back side provided with plurality of ribs for restricting floating of the recording paper.

Compl. specn. 13 pages

Drg. 5 sheets

a plurality of sets of horizontal traverse structural beams rigidly/removably connected to the said vertical columns;

a set of short pillars connecting a set of short shafts to said set of vertical columns mounted on the second traverse level from the top;

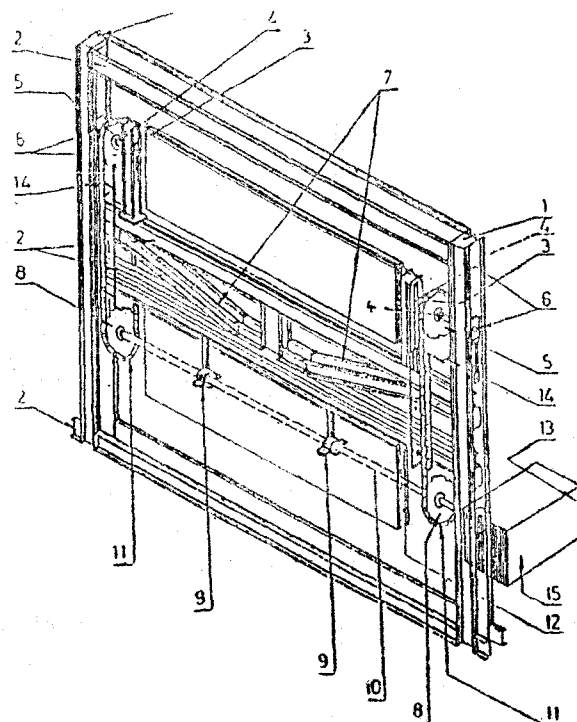
a set of diagonal tie structural beams between the said horizontal traverse structural beams to provide rigidity;

a set of at least two pairs of sprocket wheels, one pair provided with the said short shafts and other provided on a through shaft mounted on the said set of vertical columns;

a pair of carrier chains adapted to rotate the said sprocket wheels with the help of prime mover;

a plurality of carriers mounted on the said carrier chains with the help of horizontal pipes/rods adapted to travel between the centre space of the said horizontal traverse structural beams and the carrier chains; and

means for controlling the said system to move and/or to stop to expose the said carriers at the windows provided in the device.



Provisional specn. 8 pages

Drg. 2 sheets

Compl. specn. 9 pages

Drg. Nil

Int. CLASS : C 09 F—11/16

165393

## A MULTI HOARDING OUTDOOR DISPLAY DEVICE.

Applicant & Inventor : AUSTIN SIMOENS, INDIAN NATIONAL OF 1181-C PAREL TANK ROAD, BEHIND HAFFKINE INSTITUTE, NEAR AMBEDKAR NAGAR, PAREL, BOMBAY-400 012, MAHARASHTRA, INDIA.

Application No. 297/Bom/1986 filed on October 21, 1986.

Complete after provisional left on January 13, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay-13.

## 5 Claims

A multi hoarding outdoor display system for publicity and the like, consisting :

a set of vertical columns;

Int. CLASS : F 16 D—3/08

165394

## BENT AXIS COUPLER.

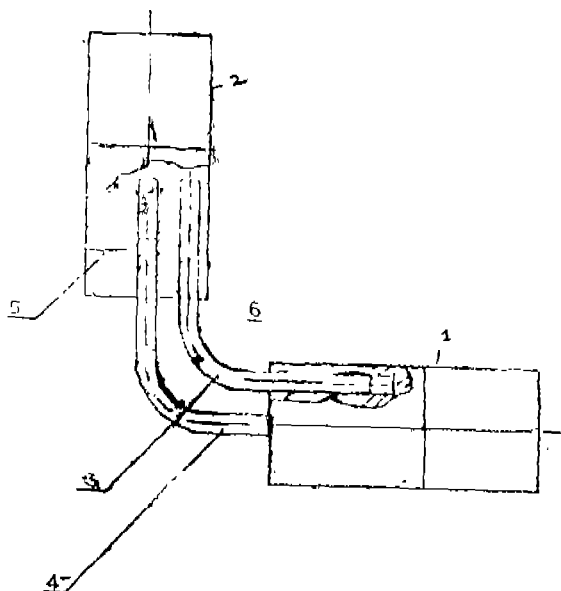
Applicant & Inventor : RATNAKAR VASUDEO SAHAS-RABUDHE, AT 219 SHANWAR PETH, PUNE-411 030, MAHARASHTRA, INDIA.

Application No. 323/Bom/1986 filed on 28th November, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Bombay.

## 3 Claims

A bent axis coupler a form of mechanical coupling for transmission of continuous unidirectional, bidirectional or intermitant rotational motion from an input device through a driving adapter to an out put device through a driven adapter whose axes intersect at a fixed and predetermined angle which is obtained by assembling the straight ends of the bent rigid pins in corresponding holes provided in the driver and driven adapter, wherein a central pin which is axially located by means of lock wires and is radially free in both the adapters; however the peripheral or drive pins which are also bent at the same angle are free to reciprocate in the substantially long holes provided in the adapters so as to transmit the rotational input power from driving adapter through drive pins to the driven adapter, simultaneously the drive pins move inwards or outwards in both adapters depending upon whether they are moving towards the inner or outer side of the bent axis coupler.



Compl. specn. 5 pages.

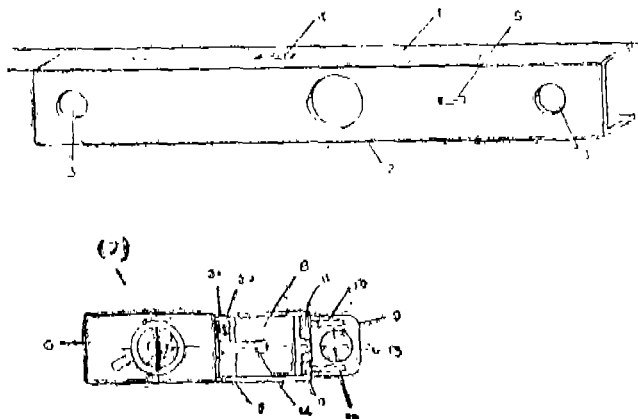
Drg. 1 sheet

the said safety chain link locking system having an housing provided with a circular hole on extended strip at one end in alignment circular hole on extended strip at one end in alignment with a circular hole in the said channel cross section metal frame to secure to handle fixture and a laterally movable locking lever plate having a slot in alignment with a rectangular slot in the said channel cross section with metal frame;

the said locking lever plate movably placed within the said housing is having spring mounted on two protruding arms and a centre lugcum stopper between the said two arms;

the said arms being movable within the respective holes in the said housing under spring tension the whole arrangement being such that when the cam ended lever of the chain link is inserted into the rectangular slot in the said main channel cross section metal frame;

the cam ended portion of the said cam ended lever pushes the said laterally movable locking lever plate against the spring tension and gets locked in its recess portion with the said lever plate automatically without the necessity of the said tumbler locking means being unlocked with a key.



Compl. specn. 6 pages

Drg. 1 sheet

Ind. CLASS : 117 A+117 B—LVXV(5)

165395

Int. Cl. : E 05 B—63/00; E 05 B—65/00.

## AN IMPROVED SAFETY CHAIN LINK LOCK FOR A SUITCASE.

Applicant : SAFARI INDUSTRIES (INDIA) LTD.  
107/70, KHETANI TEXTILE COMPOUND, BAZAR-  
WARD, KURLA, BOMBAY-400 070, MAHARASHTRA,  
INDIA.

Inventor : GULAB ATMASINGH MANSUKHANI.

Application No. 62/Bom/1987 filed on 9th March, 1987.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Branch Bombay.

## 2 Claims

An improved safety chain link lock for a suitcase comprising :

a main channel cross section metal frame which is housing a tumbler locking means in a circular hole and a safety chain link locking system adjacently and closely placed to the said tumbler locking means;

Int. CLASS : E 01 F—13/00

165396

## THE RESILIENT SUPPORTS FOR CRASH BARRIERS OR RAILINGS ON HIGHWAYS.

Applicant & Inventor : DIGAMBAR SADASHIVRAO  
DESHPANDE, PROPRIETOR D.S. DESHPANDE AND  
ASSOCIATES, USEEKA, B-51, ABHIMAN-SHRI CO-OP.  
HOUSING SOCIETY, PASHAN ROAD, PUNE-411 008,  
MAHARASHTRA, INDIA.

Application No. 108/Bom/87 filed on March 27, 1987.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Branch Bombay.

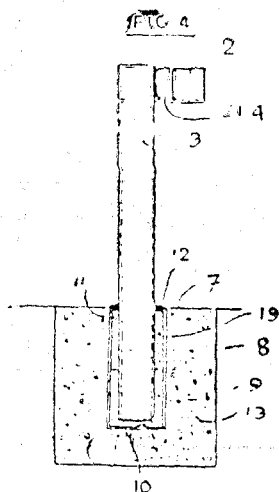
## 1 Claim

The resilient supports for crash barriers or railings comprising :

vertical poles fixed at the edge of the road and on which there are fixedly mounted plurality of horizontal members to form horizontal railing characterised in that lower portion of the said vertical pole is encased into tubular cavity or housing having round, oval, triangular, square, rectangular or polygonal cross section;

the said cross section is larger than the vertical pole, on placing the vertical pole in the said tubular housing, the same is first filled with dry sand at the bottom and also upto nearly half the height of the tubular housing followed by another fillet material made of pitch extended epoxy resin compound till nearly the upper edge of the said tubular housing, there is provided a sealant material at the top made from the mastik fillet;

the vertical pole thus formed is further placed in a cement concrete block cast in situ, arrangement being such that when such horizontal railing is provided on high way any vehicle hitting the same, it will be thrown towards the portion of the road.



Compl. specn. 5 pages

Drg. 1 sheet

Int. CLASS : B 02 C 4/30

165397

#### AN IMPROVED SUGARCANE MILL ROLLER AND A METHOD OF MANUFACTURING THE SAME.

Applicants : WALCHANDNAGAR INDUSTRIES LTD; CONSTRUCTION HOUSE, WALCHAND HIRACHAND MARG, BOMBAY-400 038, MAHARASHTRA, INDIA.

Inventors : 1. KISHOR MAHADEO POLE & 2. BHAGAVAN SHANKAR DHAVALIKAR.

Application No. 127/Bom/1987, filed on April 10, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch, Bombay.

#### Claims

An improved sugar cane mill roller comprising:

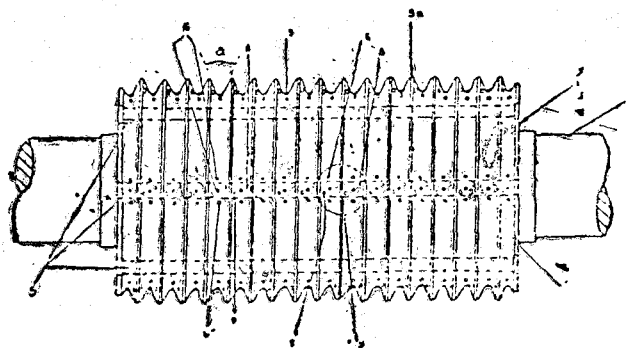
a roller body having peripheral V grooves formed circumferentially thereon and an axial bore formed therethrough and mounted on a roller shaft through the axial bore thereof;

said roller body further having spaced apart straight channels provided through the entire length thereof and circumferentially spaced apart holes at the bottom of each of the V grooves;

said holes originating from the bottom of the V grooves and terminating in said channels;

said channels being open at least at one end of said roller body; and

said roller body further having circumferentially spaced apart first ports originating from one flank each of the V grooves and terminating in said channels, and circumferentially spaced apart second ports originating from the other flank each of the V grooves and terminating in said channels, each of said holes, first ports and second ports being formed with a step therein and having an insert located therein against the respective step, said insert being provided with an axial orifice, said holes, first ports and second ports being so staggered and distributed that the stress zones surrounding said holes and ports do not overlap and said holes and ports facilitate access to juice thereinto.



Compl. specn. 20 pages

Drg. 4 sheets

Int. CLASS : A 61 d—7/02

165398

#### A DEVICE FOR ARTIFICIAL INSEMINATION IN ANIMALS.

Applicant : SCITECH CENTRE 131, KANDIVLI INDUSTRIAL ESTATE, KANDIVLI (W) BOMBAY-67, MAHARASHTRA, INDIA.

Inventor : DR. SHARAD RANGNATH LELE.

Application No. 145Bom/87 filed on April 27, 1987.

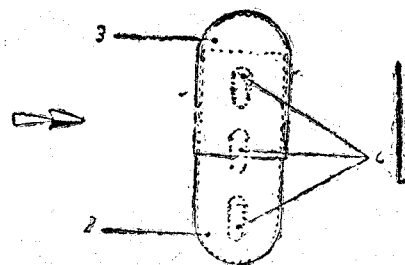
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

#### 7 Claims

A device for artificial insemination in animals comprising:

a bigger container made of water soluble material such as herein described, consisting of a body and cap;

the said container having inside it a plurality of smaller containers made of water soluble material such as herein described, filled with animal semen in desired quantity.



Compl. specn. 7 pages

Drg. 1 sheet

CLASS : 128 F; 128 G [XIX(2)]

165399

Int. Cl. : A 61 K—9/48, A 61 J—3/07.

A NOVEL METHOD OF ENABLING FASTER RELEASE OF CONTENTS FROM SOLUBLE CONTAINERS IN AQUEOUS AND NON-AQUEOUS MEDIA.

Applicants : SCITECH CENTRE, 131, KANDIVLI INDUSTRIAL ESTATE KANDIVLI WEST, BOMBAY-400 067, MAHARASHTRA, INDIA.

Inventor : (1) AJIT SINGH.

Application No. 146/Bom/1987 filed April 27, 1987.

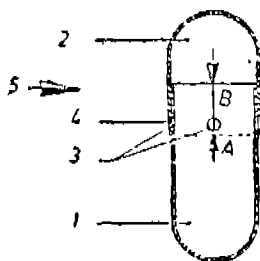
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 6 Claims

A device for faster release of the contents filled inside it such as medicines, insecticides, water treatment chemicals, animal semen for artificial insemination or the like, comprising :

a container made of water soluble material such as herein described consisting of a body and a cap each of said body being provided with at least one peripheral hole and cap being provided with at least one peripheral hole and a line and/or arrow marks also provided axially on the said body and said cap;

the arrangement being such that when the said line/arrow marks are put in a straight line the said holes in the body and cap are in perfect alignment thereby making a hole right through from the outside into container for releasing the contents filled inside the container instantly.



Compl. specn. 6 pages

Drg. 1 sheet

Int. CLASS : B 23 G—5/14

165400

A DEVICE TO PROVIDE GUIDE FOR A TAP.

Applicant & Inventor : SHRI RAMESH DATTATRAYA PUJAR, 428/68, GULTEKDI, LAXMI BUILDING OPP. PRABHAT PRINTING, PUNE-411 037, MAHARASHTRA, INDIA.

Application No. 150/Bom/87 filed April 29, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

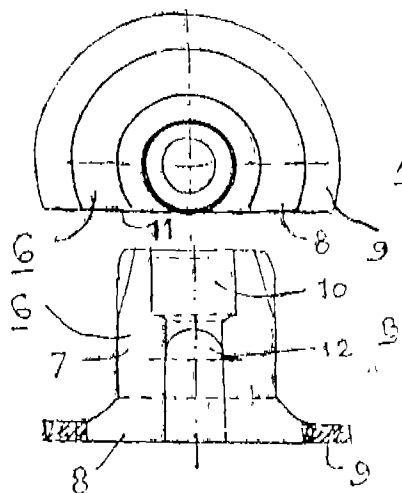
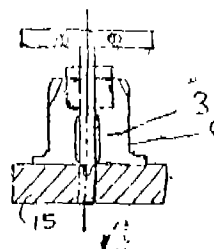
## 1 Claim

A device to provide guide for a tap comprising :

main body having a broad base with an extended collar at its base;

characterised in that there is provided a hollow cavity in the upper position of the guide upto one third or one half the depth of the main body which houses an insert, outer diameter of the said insert corresponds to the inner diameter of the said hollow cavity, the inner diameter of the said insert varies according to the tap to be used;

one side of the main body is vertically cut at right angle to the base such that the cavity is exposed for viewing the tap and thus locate its centre and observe progressing tapping.



Compl. specn. 4 pages

Drg. 1 sheet

Int. CLASS : A 01 D 46/00

165401

AN ATTACHMENT DEVICE PARTICULARLY SUITED FOR CLIMBING SUBSTANTIALLY VERTICAL PROJECTION SUCH AS A POLE OR STEM.

Applicant & Inventor : UPPINANGADY VARADARAYA NAYAK, 15-48, HAPPY VALLEY, KULSHEKAR, MANGALORE-575 005, KARNATAKA, INDIA, AN INDIAN CITIZEN.

Application No. 452/Mas/85 filed June 19, 1985.

Complete specification left 5th September, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 5 Claims

An attachment device particularly suited for climbing a substantially vertical projection such as a pole or a stem comprising :

a frame for enclosing the said projection;

an arm projecting outwardly from the frame for carrying a weight such as that of a person;

an opening provided in the frame for inserting the projection within the frame;

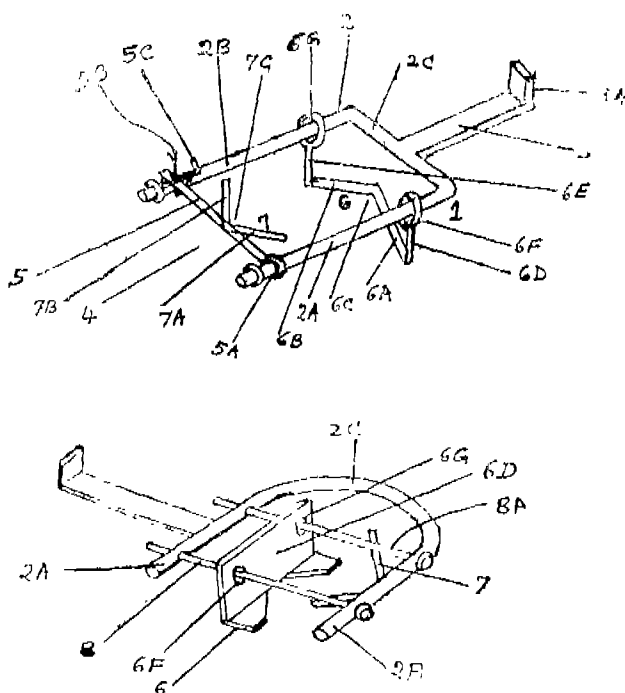
the said opening being provided with a closure means, fixed grip and slidable grip for engaging and gripping the said projection characterised in that the said slidable grip is provided with grip-arm/s,

said grip-arm provided with eye and slidably secured to essentially two mutually substantially parallel, spaced apart extended members;

said each extended member passing through said each eye and extending in a substantially opposite direction to that of the arm;

said extended members forming opposite sides of the frame or secured to the frame, wherein the grip-arm with the eye is tiltable on the extended member by the action of a force on the slidable grip or the grip-arm and wherein two opposite inner sides of the eye are capable of engaging opposite sides of the extended member by tilting when the grip-arm is tilted, one of the said inner-sides being situated adjacent to the end of the grip-arm in communication with the eye, whereby the grip-arm is locked to the extended member.

Prov. 11 pages



Compl. specn. 13 pages

Drg. 2 sheets

Int. CLASS: B 60 T 15/52

165402

# A FLUID PRESSURE CONTROLLED VEHICLE BRAKE APPARATUS.

Applicant : AMERICAN STANDARD INC., A CORPORATION OF THE STATE OF DELAWARE, OF 40 WEST 40TH STREET, NEW YORK, NEW YORK 10018, U.S.A.

Inventors : (1) JOHN RICHARD REISS, (2) RICHARD KATZ.

Application No. 497/Mas/85 filed July 1, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

## 6 Claims

A fluid pressure controlled vehicle brake apparatus comprising :

- (a) a brake pipe normally charged with fluid under a predetermined pressure;
- (b) an auxiliary reservoir normally charged with fluid under at the said predetermined pressure;
- (c) a control reservoir normally charged with fluid under at the said predetermined pressure;
- (d) fluid operated brake means for braking said vehicles;
- (e) a fluid supply passage;
- (f) a fluid delivery passage connected to said brake means;
- (g) a service valve device having a movable piston abutment operative in response to variation of said brake pipe fluid under pressure, said movable piston abutment comprising :

- (i) a main piston subject on one side to said brake pipe fluid under pressure and on the opposite side to said control reservoir fluid under pressure;
- (ii) a feedback piston;
- (iii) first valve means for controlling fluid pressure communications between said supply passage and said delivery passage;
- (iv) a piston stem to which said feedback piston is fixed, said piston stem being interposed between said main piston and said first valve means being operated by said piston stem to establish fluid pressure communication between said supply passage and said delivery passage when said main piston is actuated in a first direction from a brake release position of said piston abutment to a brake application position thereof in response to a reduction of said brake pipe fluid pressure relative to said control reservoir fluid pressure;
- (v) a bias spring acting on said piston abutment in a direction opposite said first direction to urge movement thereof toward a lap position intermediate said release and application positions in which said first valve means interrupts said fluid pressure communication between said supply passage and said delivery passage;

- (h) selector valve means for manually selecting a graduated release mode of operation in which said auxiliary reservoir fluid under pressure is connected to said supply passage and said one side of said feedback piston is connected to said delivery passage, and a direct release mode of operation in which said control reservoir fluid under pressure is connected to said supply passage and said one side of said feedback piston is connected to atmosphere;

- (i) a one-way differential check valve in said supply passage; and

- (j) a fluid pressure charged service reservoir connected to said supply passage downstream of said differential check valve to supply fluid pressure to said brake means in parallel with said control reservoir in said direct release mode of brake control.

Compl. specn. 24 pages

Drg. 1 sheet

Int. CLASS: D 01 H 1/12; 1/243

165403

Application No. 534/Mas/85 filed July 12, 1985.

## METHOD AND APPARATUS FOR THE PRODUCTION OF A YARN.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch, Madras.

Applicant: MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventors: (1) HERBERT STALDER, (2) JOSEF BAUMGARTNER.

Application No. 519/Mas/85 filed July 9, 1985.

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

## 22 Claims

A method of spinning a yarn and the like by the open-end friction spinning principle, comprising the steps of: separating fibres from a fibre sliver;

transferring said separated fibres in a freely floating condition by means of a pneumatic, fibre-transporting air stream to a moving perforated surface of a friction spinning means subjected to under-pressure;

selecting a speed relationship between said pneumatic, fibre-transporting air stream and the speed of said moving perforated surface such that said step of transferring said separated fibres entails receiving leading ends of said separated fibres as said moving perforated surface of said friction spinning means and transporting said leading ends of said separated fibres substantially in peripheral direction on said moving perforated surface and that said step of transporting said leading ends of said separated fibres on said moving perforated surface of said friction spinning means entails further transferring trailing portions of said separated fibres to said moving perforated surface of said friction spinning means by said pneumatic, fibre-transporting air stream and receiving said trailing portions of said separated fibres at said moving perforated surface of said friction spinning means such that said transferred fibres assume a rearwardly inclined orientation on said moving perforated surface as viewed in the direction of movement of said moving perforated surface of said friction spinning means and as viewed in a predetermined withdrawal direction of a spun yarn; transporting said transferred fibres by means of said moving perforated surface to a yarn formation position in which said transported fibres are formed into a spun yarn;

said step of transporting said transferred fibres entails delivering said fibres to said yarn formation position while lying on said moving perforated surface in substantially straightened configuration and simultaneously while lying in said rearwardly inclined orientation as viewed in said predetermined withdrawal direction of said spun yarn and finally withdrawing said spun in said predetermined withdrawal direction.

Compl. specn. 31 pages

Drg. 7 sheets

Int. CLASS: C 03 B 5/00

165404

## A DEVICE FOR MOUNTING ON THE OUTSIDE OF A FLOAT FURNACE FOR MANUFACTURE OF A GLASS RIBBON.

Applicant: SAINT-GOBAIN VITRAGE, OF "LES MIROIRS" 18, AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE, A FRENCH COMPANY.

Inventor: ANDRE PIERRE.

## 5 Claims

A device for mounting on the outside of a float furnace for manufacture of a glass ribbon, a system participating in the manufacture comprising:

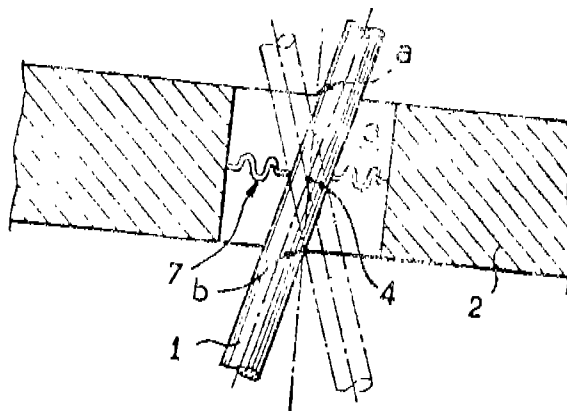
a member passing through a lateral wall of the float furnace;

said member passing through the wall being capable of taking different orientation relative to the vertical plane containing the axis of the opening of passage of the member by pivoting about a point, and/or as required different inclination relative to the plane of the glass ribbon by pivoting about a point;

characterised in that it comprises means on which the system comprising the member passing through the wall is mounted;

the said means locating at least one of the points of pivoting on the axis of the opening of passage of the member through the wall within the thickness of the lateral wall of the float furnace, and comprising a vertical anchoring plate on which the system comprising the member passing through the wall is fixed;

the anchoring plate being articulated on two opposite sides to two connecting rods themselves articulated at points connected to the lateral wall of the furnace, situated on respective sides of the opening of passage of the member through the wall.



Compl. specn. 13 pages

Drg. 2 sheets

Int. CLASS: D 01 G 23/02

165405

## A CHUTE FEEDING DEVICE FOR FEEDING FIBRE MATERIAL AT A CARD.

Applicant: MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406, WINTERTHUR, SWITZERLAND.

Inventors: (1) ROLF BINDER, (2) PAUL STAEHEL, (3) URS STAHL, (4) FRITZ KNABENHANS.

Application No. 357/Mas/85 filed July 12, 1985.

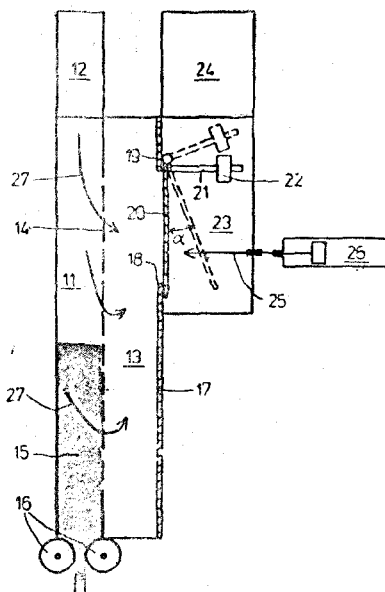
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch, Madras.

## 8 Claims

A chute feeding device for feeding fibre material at a card, the said device comprises:

- a feed chute to receive fibres delivered by a transport duct with a feed roll pair located at its lower end and an outflow chamber separated from this feed chute by an air-permeable wall and a pivotable blocking flap;

wherein the outflow chamber (13) is connected to an outflow passage (24) via an opening (18) in one of its walls (17) which is not the air-permeable wall, and the flap (20, 30, 40) is arranged over the opening (18) and is movable thereover into closure positions forming selective resistances to the air.



Compl. specn. 13 pages

Drg. 2 sheets

Int. CLASS<sup>4</sup>: G11 B 23/04

165406

## A TAPE CASSETTE.

Applicant: VICTOR COMPANY OF JAPAN, LTD., OF NO. 12, 3-CHOME, MORIYA-CHO, KANAGAWA-KU, YOKOHAMASHI, KANAGAWA-KEN, JAPAN, A JAPANESE COMPANY.

Inventor: MITSUHIKO HARA.

Application No. 545/Mas/85 filed July 16, 1985.

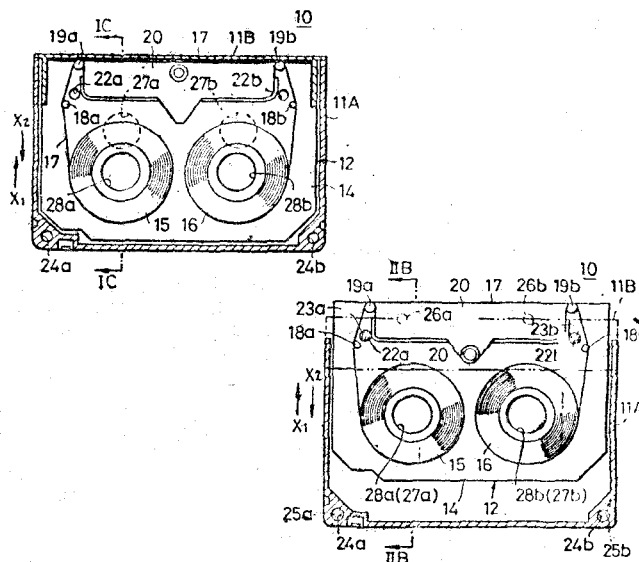
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Branch Madras.

## 10 Claims

A tape cassette comprising:

- a cassette case comprising a main cassette body having a front opening at the front thereof and a lid rotatably mounted on said main cassette body for normally covering said front opening, said main cassette body comprising a top plate, a bottom plate, a rear plate, and right and left side plates, said top and bottom plates of said main cassette body each having a linear front edge at said front opening and having no cutout part at said front opening; and
- a sliding body comprising guide parts for guiding the magnetic tape between a pair of tape rolls along the front of said sliding body and a cutout part for

receiving tape draw-out means of a magnetic recording and reproducing apparatus, said magnetic tape extending across said cutout part along said front of said sliding body, said sliding body being slidable through said front opening between an in position where said sliding body is completely accommodated within said main cassette body and said cutout part is covered by the bottom plate of said main cassette body and an out position where a part of said sliding body is extracted through said front opening so that said cutout part is exposed outside said main cassette body to permit said tape draw-out means of said apparatus to enter into said cutout part.



Compl. specn. 33 pages

Drg. 8 sheets

Int. CLASS<sup>1</sup>: C 01 B 3/22

165407

A PROCESS FOR PRODUCING SYNTHESIS GAS OF INCREASED H<sub>2</sub>/CO RATIO.

Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., A NETHERLANDS COMPANY OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors: (1) MAARTEN JOHANNES VAN DER BURGT, (2) WILLEM JAN ANTOON HENRI SCHOEVER.

Application No. 546/Mas/85 filed on July 16, 1985.

Convention date: July 18, 1984. (No. 84 18239; Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Madras.

## 3 Claims. No drawing

A process for producing synthesis gas of increased H<sub>2</sub>/CO ratio which comprises the steps of:

- (1) partially oxidising one or more gaseous fuels to produce synthesis gas with oxygen containing gas in the presence of steam in a partial oxidation zone;
- (2) endothermically reacting at least one organic compound such as herein defined with steam and/or CO<sub>2</sub> in an endothermic reaction zone;
- (3) feeding the reaction products of the partial oxidation zone into the endothermic reaction zone, the endothermic reaction being carried out in a fluid



bed reactor having known particulate catalyst bed maintained at a temperature of 800 to 950° the said fluidised catalyst bed being indirectly heated by routing the said organic compound/CO<sub>2</sub>/steam mixture therethrough or from the partial oxidation zone, recovering the synthesis gas in a known way.

Compl. Specn. 9 pages

Int. CLASS<sup>4</sup>: C 21 C 1/00

165408

# APPARATUS FOR REMOVING IMPURITIES CONTAINED IN MOLTEN PIG IRON TAPPED FROM BLAST FURNACE.

Applicant : NIPPON KOKAN KABUSHIKI KAISHA, A JAPANESE CORPORATION, OF 1-2, 1-CHOME, MARUNOUCHI, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) KENZO YAMADA, (2) KATSUHIRO IWASAKI, (3) MITSURU OHTSUKI, (4) HARUO ITO.

Application No. 554/Mas/85 filed July 17, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Madras.

## 7 Claims

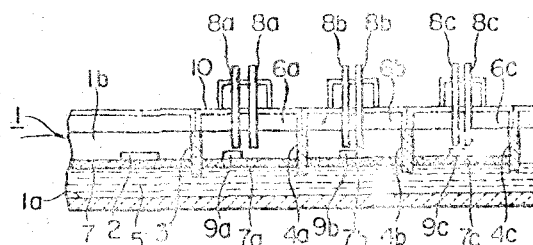
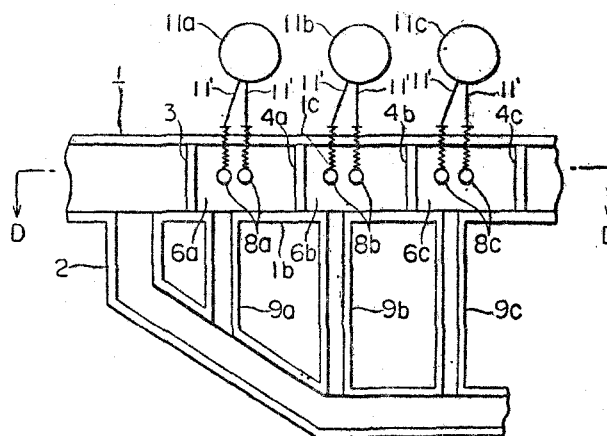
An apparatus for removing impurities contained in molten pig iron tapped from a blast furnace, which comprises :

a hot-metal runner for directing molten pig iron tapped from a blast furnace into a hot-metal ladle, a skimmer, provided in the middle of said hot-metal runner, a slag runner, provided in the upstream of said skimmer relative to the flowing direction of molten pig iron in said hot-metal runner, and at least one lance, arranged substantially vertically above said hot metal runner, for blowing, by means of a carrier gas, a granular flux for removing impurities contained in molten pig iron tapped from said blast furnace into molten pig iron flowing through said hot-metal runner, the lowermost end of said at least one lance being spaced apart by a prescribed distance from the surface of molten pig iron flowing through said hot-metal runner, characterised in that;

at least two partitions (4a, 4b, 4c) are provided in said hot-metal runner (1) at prescribed intervals therebetween at right angles to the flowing direction of molten pig iron in said hot-metal runner (1) in the downstream of said skimmer (3) relative to the flowing direction of molten pig iron in said hot-metal runner (1) to divide said hot-metal runner (1) into at least two reaction zones (6a, 6b, 6c), the lower end of each of said at least two partitions (4a, 4b, 4c) being immersed into molten pig iron flowing through said hot-metal runner (1), and being spaced apart from the bottom (1a) of said hot-metal runner (1) by a distance sufficient to allow molten pig iron to pass through said at least one lance (8a, 8b, 8c) is arranged for each of said at least two reaction zones (6a, 6b, 6c);

each of a plurality of branch slag runners (9a, 9b, 9c) is provided for each of said at least two reaction zones (6a, 6b, 6c), whereby molten slag produced in each of said at least two reaction zones (6a, 6b, 6c) through combination of said granular flux

blow from said at least one lance (8a, 8b, 8c) into molten pig iron flowing sequentially through said at least two reaction zones (6a, 6b, 6c) with impurities contained in molten pig iron, is dammed up by each of said at least two partitions (4a, 4b, 4c) separated from molten pig iron, and discharged from molten pig iron, and discharged through each of said plurality of branch slag runners (9a, 9b, 9c) from each of said at least two reaction zones (6a, 6b, 6c).



Compl. 46 pages

Drg. 6 sheets

Int. CLASS : A 47 B 9/00

165409

## A SHELVING SYSTEM.

Applicant : INTERPLASTIC CORPORATION, OF 2123 NE BROADWAY, MINNEAPOLIS, MINNESOTA 55413, U.S.A. A CORPORATION OF THE STATE OF MINNESOTA, UNITED STATES OF AMERICA.

Inventors : (1) GEORGE E. HAND, (2) ROMAN A. KRAMER.

Application No. 572/Mas/85 filed on July 24, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Madras.

## 15 Claims

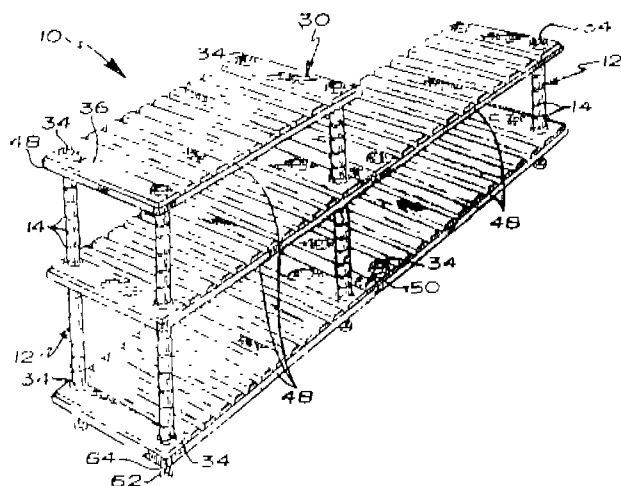
A shelving system comprising :

a plurality of elongated support posts having recesses spaced along the longitudinal axis;

at least one resilient support post clip for each support post arranged to be detachably fastened around each support post within a recess for providing an adjustable shelf support; and

at least one shelf member comprising recesses at least partially accepting and detachably nesting with the support post clip attached around the support post for retaining the support post and shelf member in

a fixed relationship until the shelf member is detached.



Compl. specn. 15 pages

Drg. 2 sheets

Int. CLASS: C 03 C 17/28

165410

#### A METHOD OF PRODUCING A TRANSPARENT BARRIER COATED GLASS SUBSTRATE.

Applicant : PILKINGTON BROTHERS P.L.C., A COMPANY INCORPORATED UNDER THE LAWS OF GREAT BRITAIN, OF PRESCOT ROAD, ST. HELENS, MERSEYSIDE WA10 3TT, ENGLAND.

Inventor : DAVID ANTHONY PORTER.

Application No. 604/Mas/85 filed on August 2, 1985.

Convention date : August 13, 1984; (No. 84 20534, United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch Madras.

9 Claims. No drawing

A method of producing a transparent barrier coated glass substrate in which a silane gas is pyrolysed on the surface of a glass upto 2 mm thick, at a temperature above 600°C in the presence of a gaseous electron donating compound such as herein described which contains either in bonds or as lone pair electrons, electrons which can be donated into the electronic structure of suitable acceptor molecules, wherein the ratio of the gaseous electron donating compound to silane is from 0.1 : 1 to 15 : 1 by volume, whereby oxygen from the glass is incorporated with silicon to form on the glass surface a transparent barrier coating up to 50 mm thick containing silicon and oxygen.

Compl. specn. 33 pages.

#### REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. Nos. 160936 & 160937. Partecipazioni Bulgari S.P.A. an italian company of No. 5 Via Gregoriana-00187 ROMA, Italy. "an Nicklace". 1st May, 1989.

Class 1. No. 160979. Harilal Laxmichand Parekh, Indian National, of Mandvi Chowk, Rajkot, State of Gujarat, India. "Stove Nipple". 9th May, 1989.

Class 1. No. 161047. Mipak Plastics Private Limited, of 16 Khetan Bhavan, 198 J. Tata Road, Bombay-

400 020, Maharashtra, India, an Indian organisation "Tumblers (Mugs)". 2nd June, 1989.

Class 3. No. 160802. The Bombay Oil Industries Limited, (an Indian Company) at Kammoor House, 281-87 Narsi Natha Street, Bombay 400 009, State of Maharashtra, India. "Container". 13th March, 1989.

Class 3. No. 160820. Dr. Jose Thakattil, Physician, University Health Centre, Calicut University P.O., Kerala State, India, an Indian national. "Cover for Coconut Scraper Tip". 16th March, 1989.

Class 3. No. 160853. Arun Jain, an Indian National, trading as Comate Electronics, IX/2084, Street No. 6, Kailash Nagar, Delhi-110031, India. "Tovs". 30th March, 1989.

Class 3. Nos. 160947 & 160950. Bata India Limited, 30, Shakespeare Sarani, Calcutta 700 017, West Bengal, India. "a sole for the footwear". 3rd May, 1989.

Class 3. No. 160966. Mahabir Plastic Industries of 10 Pollock Street, Calcutta-700001, West Bengal, India, an Indian Partnership firm. "a Comb". 3rd May, 1989.

Class 3. No. 160980. Modi Rubber Limited, an Indian company of Modinagar, Uttar Pradesh, India. "Tyre for a Vehicle Wheel". 9th May, 1989.

Class 3. No. 160999. Carrier Aircon Limited, an Indian Company, 861-Sector-14, Gurgaon, Haryana-122001, India. "Air Conditioner". 22nd May, 1989.

Class 3. No. 161019. Ashish Enterprises, Irani Bldg., Ground floor, 303, Cawasji Street, Bombay-2, State of Maharashtra, India, an Indian Partnership firm. "Nekchain". 29th May, 1989.

Class 3. No. 161024. Rawneck Industries, an Indian Sole Proprietors' firm of 57, Bhagya Apt., Andheri (W), Bombay-400 058, Maharashtra, India. "BOTTLE". 29th May, 1989.

Class 3. No. 161029. Sajavat, 210, Golf Links, New Delhi-110003, India, whose Proprietor is Harkirat Singh Sodhi, an Indian National. "Fountain". 31st May, 1989.

Class 3. No. 161048. Mipak Plastics Private Limited of 16 Khetan Bhavan, 198, J. Tata Road, Bombay-400 020, Maharashtra, India, an Indian organisation. "Tumblers (Mugs)". 2nd June, 1989.

Class 4. No. 160864. WM. Teacher & Sons Limited, a British Company of 14 St. Enoch Square, Glasgow G1 4BZ, United Kingdom. a "BOTTLE". Reciprocity date is 16th December, 1988. (Ireland).

Class 4. No. 161049. Mipak Plastics Private Limited of 16 Khetan Bhavan, 198, J. Tata Road, Bombay-400 020, Maharashtra, India, an Indian Organisation. "Tumblers (Mugs)". 2nd June, 1989.

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